CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
July 25	Newton, N. C.	July 20
July 25	Long Island City, N. Y.	July 20
July 25	East Syracuse, N. Y.	July 13
July 26	Phila., Pa.	July 20
July 28	Emery, S. D.	July 20
July 28	Ebensburg, Pa.	July 13
July 31	Murdo, S. D.	July 13
Aug. 1	Coalport, Pa.	July 20
Aug. 1	Reedley, Cal.	July 20
Aug. 1	Santa Rosa, Cal.	July 20
Aug. 2	Oklahoma City, Okla.	July 20
Aug. 7	Mitchell, S. D.	July 13
	Adv. July 13 and 20.	
Aug. 8	Walbridge, O.	July 20

SEWERS

Bids Close		See Eng. News-Record
July 24	Bridgeport, Conn.	July 20
July 24	Hackensack, N. J.	June 29
July 24	Annville, Pa.	July 13
	Adv. July 13 and 20.	
July 24	South Chicago Heights, Ill.	July 20
	Adv. July 20.	
July 25	Wheeling, W. Va.	July 20
	Adv. July 20.	
July 25	Oklahoma City, Okla.	July 13
July 25	Gloversville, N. Y.	July 13
July 25	Columbus, O.	July 20
July 26	Louisville, Ky.	July 13
July 26	Miami Beach, Fla.	July 13
July 26	Rye, N. Y.	July 13
	Adv. July 13 and 20.	
July 26	Long Island City, N. Y.	July 20
July 26	Brooklyn, N. Y.	July 20
July 27	San Luis Obispo, Cal.	July 20
July 27	Brainerd, Minn.	July 13
July 28	Emery, S. D.	July 20
July 31	St. Charles, Minn.	July 20
July 31	Indianapolis, Ind.	July 13
	Adv. July 13 and 20.	
Aug. 1	Lake Worth, Fla.	July 13
	Adv. July 13 and 20.	
Aug. 1	Knoxville, Tenn.	July 20
Aug. 2	Avon, S. D.	July 13
Aug. 4	Gregory, S. D.	July 13

WASTE DISPOSAL

Bids Close		See Eng. News-Record
July 25	Buffalo, N. Y.	June 22
July 31	Chatham, Ont.	July 13
	Adv. July 13 and 20.	

BRIDGES

Bids Close		See Eng. News-Record
July 24	California	July 13
July 25	New Castle, Pa.	July 20
July 25	Alabama	July 6
July 25	North Carolina	July 6
July 25	North Carolina	July 13
July 26	South Carolina	July 13
July 28	Tennessee	July 13
July 29	Cleveland, O.	July 13
July 31	Ohio	July 20
Aug. 1	Georgia	July 20
Aug. 1	Ft. Lauderdale, Fla.	July 20
Aug. 4	Seattle, Wash.	June 29
	Adv. June 29, July 6 and 20.	
Aug. 4	Kingman, Kan.	July 20
Aug. 8	Stockton, Cal.	July 20
Aug. 10	Atlanta, Ga.	July 20
	Adv. July 20.	
Aug. 10	Columbus, O.	July 20
Aug. 29	Wellington, New Zealand	July 13
Oct. 1	Siam	July 13
Oct. 31	Sydney, Australia	Jan. 12

EXCAVATION AND DREDGING

Bids Close		See Eng. News-Record
July 25	Brooklyn, N. Y.	June 29
	Adv. June 29 to July 20.	
July 25	Lawtell, La.	July 13
July 26	Olivia, Minn.	July 13
July 26	Brooklyn, N. Y.	July 20
July 28	Boone, Ia.	July 20
Aug. 1	Hampden, Wis.	July 20
Aug. 1	Merced, Cal.	July 20
Aug. 8	Grants Pass, Ore.	July 20
Aug. 10	Wooster, O.	July 13
	Adv. July 13 and 20.	
Aug. 12	Kokomo, Ind.	July 20
	Adv. July 20.	
Aug. 14	Benton, Mo.	July 20
	Adv. July 20.	

Bids Close		See Eng. News-Record
Aug. 15	Ft. Lauderdale, Fla.	July 13
	Adv. July 13 and 20.	
Aug. 18	Bloomington, Ill.	July 20
	Adv. July 20.	

STREETS AND ROADS

Bids Close		See Eng. News-Record
July 21	New York	July 13
	Adv. July 6 to 20.	
July 24	Ripley, W. Va.	July 13
July 24	California	July 13
July 24	Columbia, Mo.	July 13
	Adv. July 13 and 20.	
July 24	Wilson, Pa.	July 20
July 24	Dayton, O.	July 20
July 24	Waukon, Ia.	July 20
July 25	Columbia, S. C.	July 20
July 25	Long Island City, N. Y.	July 20
July 25	Syracuse, N. Y.	June 29
	Adv. June 29 to July 20.	
July 25	Cameron, Tex.	July 13
July 25	Louisiana	July 13
July 25	Alabama	July 6
July 25	Maryland	July 13
	Adv. July 13 and 20.	
July 25	North Carolina	July 13
	Adv. July 13 and 20.	
July 25	Clarksburg, W. Va.	July 13
July 25	Blue Island, Ill.	July 20
	Adv. July 20.	
July 25	Lufkin, Tex.	July 20
July 25	Columbus, O.	July 20
July 25	Missouri	July 20
July 25	Phila., Pa.	July 20
July 26	Upper Arlington, O.	July 20
July 26	Missouri	July 20
July 26	Rochester, N. Y.	July 20
July 26	Connecticut	July 20
	Adv. July 20.	
July 26	Westfield, Mass.	July 13
July 26	Delaware	July 13
July 26	Michigan	July 13
July 26	Brooklyn, N. Y.	July 20
July 26	Cleveland, O.	July 20
July 26	Eldorado, Tex.	July 20
July 26	Lufkin, Tex.	July 20
July 26	Wisconsin	July 20
July 27	Sonora, Tex.	July 20
July 27	Missouri	July 20
July 27	Michigan	July 20
July 28	Tennessee	July 20
July 28	Fargo, N. D.	July 20
July 28	Walworth, Wis.	July 20
July 28	Austin, Tex.	July 20
July 28	Clarksburg, W. Va.	July 20
July 28	Michigan	July 20
July 28	Larned, Kan.	July 13
July 28	Tennessee	July 13
July 29	Wheeling, W. Va.	July 13
July 29	Lockport, N. Y.	July 13
July 31	California	July 13
July 31	Greenville, N. C.	July 13
July 31	Washington, Pa.	July 13
	Adv. July 13 and 20.	
July 31	Wash., D. C.	July 20
	Adv. July 20.	
July 31	Ohio	July 20
July 31	Winona, Minn.	July 20
July 31	Goshen, Ind.	July 20
July 31	Crown Point, Ind.	July 20
Aug. 1	Georgia	July 20
Aug. 1	Georgetown, Tex.	July 20
Aug. 1	Minnesota	July 13
Aug. 1	Oil City, Pa.	July 13
Aug. 1	Quebec	July 20
Aug. 1	Louisiana	July 20
Aug. 1	Centerburg, O.	July 20
Aug. 1	Maryland	July 20
	Adv. July 20.	
Aug. 2	Woodland, Cal.	July 20
Aug. 2	South Carolina	July 20
Aug. 2	Minnesota	July 13
Aug. 2	Akron, O.	July 20
Aug. 3	Lenoir, N. C.	July 20
Aug. 4	Hallstead, Pa.	July 20
	Adv. July 13 and 20.	
Aug. 4	Roswell, N. M.	July 13
Aug. 7	California	July 20
Aug. 8	San Rafael, Cal.	July 20
Aug. 8	Louisiana	July 20
Aug. 9	Ft. Myers, Fla.	July 6
Aug. 9	Hackensack, N. J.	July 20
	Adv. July 20.	
Aug. 10	Woodbury, N. J.	July 20
	Adv. July 20.	
Aug. 10	Fredericktown, O.	July 20
Aug. 15	Wadsworth, O.	July 20
	Adv. July 20.	
Aug. 15	Knoxville, Tenn.	July 20
Sept. 19	New Orleans, La.	July 6

INDUSTRIAL WORK

Bids Close		See Eng. News-Record
July 28	Homestead, Fla.	June 29

BUILDINGS

Bids Close		See Eng. News-Record
July 25	Wende, N. Y.	July 20
July 26	Phila., Pa.	July 20
July 26	Siler City, N. C.	July 20
July 27	New York, N. Y.	July 20
July 28	Dickinson, N. D.	July 13
July 29	Southern Pines, N. C.	July 20
July 30	Westwood, N. J.	June 22
Aug. 1	Taft, Cal.	July 20
Aug. 2	Perry, N. Y.	July 20
	Adv. July 20.	
Aug. 2	Berkeley, Cal.	July 13
Aug. 2	Brunswick, Ga.	July 13
Aug. 5	Belfast, Me.	July 13
Aug. 10	Mt. Sterling, O.	July 20
Aug. 14	Oakland, Cal.	July 20
Aug. 15	Grandview Heights (Columbus P. O.)	July 20
Aug. 20	Erie, Pa.	July 13
Sept. 30	Duluth, Minn.	July 13
Sept. 1	Knoxville, Tenn.	July 20

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
July 24	Sewer—Eagle Pass, Tex.	July 20
July 25	Wire Mesh, etc.—Memphis, Tenn.	July 13
	Adv. July 13 and 20.	
July 26	Heating Plant — Hampton Roads, Va.	July 20
July 26	Equipment—Hampton Roads, Va.	July 20
July 27	Breakwater Extension — Fairport, O.	July 6
	Adv. July 6 to 20.	
July 31	Steel Hull — Montgomery, Ala.	July 6
	Adv. July 6 to 20.	
July 31	Hospital, Norfolk, Va.	July 13
	Adv. July 13 and 20.	
July 31	Mechanical Equipment—Norfolk, Va.	July 20
Aug. 2	Dredges—Wash., D. C.	June 15
Aug. 2	Ordnance Buildings, etc.—Pearl Harbor, H. T.	June 15
Aug. 2	Distilling Plant—Key West, Fla.	July 13
	Adv. July 13 and 20.	
Aug. 7	Dredging, etc. — New York, N. Y.	July 6
Aug. 7	Dredging—Camden, N. J.	July 13
	Adv. July 13 and 20.	
Aug. 10	Tank — Ft. MacKenzie, Wyo.	July 20
Aug. 11	Piping — North Platte, Neb.	July 20
Aug. 14	Scow—Duluth, Minn.	July 20
	Adv. July 20.	
Aug. 15	Excavation — Wilmington, Del.	July 20
	Adv. July 20.	
Aug. 15	Rock Remova. — Providence, R. I.	July 20
	Adv. July 20.	
Aug. 15	Dredging—Galveston, Tex.	July 20
	Adv. July 20.	
Aug. 15	Stone—New Orleans, La.	July 20
	Adv. July 20.	
Aug. 18	Radial Gates, etc.—Riverton, Wyo.	July 13
Aug. 19	Dredging—New York, N. Y.	July 20
	Adv. July 20.	
Aug. 21	Catamarans — Portland, Ore.	July 20
	Adv. July 20.	
Aug. 23	Quarrywalls, etc.—Pearl Harbor, H. T.	July 20
Sept. 1	Refrigerating Plants—Perryville, Md.	July 20
	Adv. July 20.	

MISCELLANEOUS

Bids Close		See Eng. News-Record
July 24	Pier—Sarasota, Fla.	July 13
July 24	Basement — Milwaukee, Wis.	July 20
July 24	Structural Steel, etc. — St. Paul, Minn.	July 20
July 25	Frogs, Switches, etc. — New York, N. Y.	July 13
July 26	Wharf and Transit Shed Foundation—Tampa, Fla.	July 6
	Adv. July 6 to 20.	
July 26	Fill—Tampa, Fla.	July 13
July 26	Paving Materials—St. Paul, Minn.	July 20
July 27	Transmission Line, etc. — Black Creek, N. C.	July 20
July 27	Dumping Platform and Ramp —New York, N. Y.	July 20
July 31	Paving Brick—Washington, Pa.	July 13

Bids Close		See Eng. News-Record
Aug. 1	Paving Blocks — Farrell, Pa.	July 20
Aug. 1	Drainage Pumps—New York, N. Y.	July 20
Aug. 3	Transmission Line—Turlock, Cal.	July 20
Aug. 7	Engines and D. C. Generators —Rome, N. Y. Adv. July 13 and 20.	July 13
Aug. 7	Scarifier Attachment—St. Paul, Minn.	July 20
Aug. 9	Transformers, etc. — San Francisco, Cal.	July 20
Aug. 15	Hydro-electric Development—Dothan, Ala. Adv. June 22 to July 20.	June 29
Aug. 15	Foundation — Minneapolis, Minn.	July 13

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mich., River Rouge—Having plans prepared for submerged water mains under River Rouge to connect city system with that of Detroit, incl. 600 ft. 30 in. c.i. or steel pipe, 40 ft. below water surface. $75,000. M. L. Brown & Son, Capitol Bldg., Detroit, engrs.

Wis., Dodgeville—Plans mains in Merrimac, West Division, 11th and Washington Sts., and improvements to pumping station. $25,000. J. B. Lewis, clk. Engineer not selected.

Ont., Eastview—Soon receives bids water mains, cement or c.i. $52,000. J. C. S. Wolfe, town clk.

BIDS DESIRED

N. Y., Long Island City—July 25, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Alburtis and Polk Aves., Edson, Madison, Mortense Sts., etc.

Pa., Coalport—Aug. 1 by Boro. Council concrete reservoir $25,000. E. W. Hess, Murray Bldg., Clearfield, engr.

Pa., Phila.—July 26, by F. H. Caven, dir. pub. wks., furnishing and laying 75 ton 30 in. c.i. mains and 1,350 ton 30 in. steel mains, 2,000 cu.yd. earth and 500 cu.yd. rock excav., etc., $50,000; 1,400 ton 6-8 and 12 in. c.i. mains, 23,000 cu.yd. earth and 2,000 cu.yd. rock excav., $90,000; 500 ton c.i. mains and 100 ton steel mains, 36 and 48 in., 3,000 cu.yd. earth and 300 cu.yd. rock excav., $50,000; furnishing 1,000 ton 6-8 and 12 in. c.i. pipe and 100 ton specials, $40,000; 50,000 lb. pig lead, $20,000; 400 fire hydrants, $5,000; three hundred 6 in., three hundred 8 in. and one hundred 12 in. stop valves, $17,000; piping and equipment in 5 pumping plants for Water Dept., $25,000; furnishing and installing exhaust system for machine and blacksmith shops, $8,000. C. E. Davis, City Hall, engr.

N. C., Newton—July 25, filtration plant, water and sewer extensions. $75,000. Mees & Mees, Kinney Bldg., Charlotte, engrs.

O., Akron—Fairlawn Heights Co., 41 East Mill St., taking bids 27 ton 8 in. Class B or C c.i. water pipe.

O., Columbus—See "Streets and Roads."

O., Upper Arlington—See "Streets and Roads."

O., Walbridge—Aug. 8, by N. Gordon, clk. Bd. Trustees of Pub. Affairs, waterworks system, pump building, deep well pump, 111.9 ton 6 and 8 in. c.i. pipe, 64.9 ton 4 in. c.i. pipe, laying 13,120 lin.ft. 4-6 in. c.i. pipe, etc. G. Champe, Toledo, civil engr.

Minn., Thief River Falls—Having Plans prepared filtration plant, 500,000 gal. capacity. $30,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr.

S. D., Emery—July 28, by L. Schroeder, city aud., 13,208 lin.ft. 5-8 in. c.i. mains, one 60,000 gal. steel tank on 100 ft. tower. $30,000. Smith & Reeves, Mitchell, engrs. Noted April 6.

Okla., Oklahoma City—Aug. 2, by C. F. Zemmelbeck, city clk., constructing aerator, mixing chamber, two clear water reservoirs, head house and eight 2,000,000 gal. filter units.

Cal., Reedley—Aug. 1, by City Trustees, 60,000 gal. steel water tank and tower. H. Trebley, city clk.

Cal., Santa Rosa—Aug. 1, by City Council, extending water system. To exceed $25,000. L. L. Mills, city engr.

BIDS RECEIVED

N. Y., Buffalo — Dept. Pub. Wks., Municipal Bldg., opened bids July 11, filtration plant 1, from Thompson-Starrett Co., 79 Wall St., New York, $1,800,480; A. Bentley & Sons, 201-31 Belmont Ave., Toledo, O., $1,801,765; J. Johnson Constr. Co., 765 Abbott Rd., $2,014,275. Noted June 22.

N. Y., New York—Bd. Water Supply, Municipal Bldg., Park Row, Centre and Chamber Sts., opened bids July 11, furnishing and delivering sluice-gates, hydraulic cylinders, etc., for intake shaft of Shandaken Tunnel, f.o.b. at Grand Gorge Sta. on Ulster and Delaware R.R., Delaware Co., Contr. 208, from Coffin Valve Co., Neponsett, Mass., (Item 1) $9,000 (2) $8,700 (3) $125 (4) $75 (5) $150 (6) $65 (7) $0.10 (8) $2 (9) $0.15 (10) $0.05, total $78,665. Noted June 22.

CONTRACTS AWARDED

N. Y., Brooklyn—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ave. T. Dahill Rd., Atkins, Flatlands, Lorraine Aves., etc., here, to Knight & Demicco, 448 East Tremont Ave., New York, $11,471. Noted June 22.

N. Y., Long Island City—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Arcadia, Graham, Van Alst, Vanderventer Aves., etc., to Dominick Constr. Co., 246 Bowery, New York, $10,072. Noted June 22.

N. Y., New York—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in White Plains Rd., Tudor Pl., Bronx Blvd., Grand Concourse, Bissel, Davidson, De Kalb Aves., etc., to Knight & Demicco, 448 East Tremont Ave., $13,870; transferring and rearranging connections in existing mains in Ludlow, Suffolk, East 11th, West 20th and West 51st Sts., etc., to Beaver Eng. & Contg. Co., 57 Chambers St., $8,652. Noted June 22.

Ky., Hazard—A. G. Taylor, city clk., constructing filter plant, etc., Items 1-2-5, 6-10 inclusive and 22-29 inclusive, to G. B. Howard & Co., 148-B 4th Ave., N., Nashville, Tenn., $29,886; Items 3, 4 and 30, to Roberts Filter Mfg. Co., Darby, Pa., $13,525; Items 11, 31, 32, 33 and 34, to Mine Service Co., Lothair, $9,049; Items 12-16 inclusive, to Amer. Cast Iron Pipe Co., Birmingham, Ala., $8,773; Items 17-21 inclusive, to Darling Valve & Mfg. Co., foot of Walnut St., Williamsport, Pa., $832. Noted June 15.

O., Cleveland—Placing 3,750 cu.yd. rubble concrete on crib pocket at Crib 3, 3.8 mi. from Cuyahoga River, to Amer. Constr. Co., Marion Bldg., $81,052. Noted July 13.

Mich., Detroit—Water Bd., East Jefferson Ave., will lay 4,829 ft. 6-12 in. c.i. mains in Grosse Point Manor, Calvert, Kensington, Burlingame and Turner Ave., by day labor. $25,000.

Wis., West Allis—To F. E. Kaminski, Berlin, mains in Lapham St. and 56 Ave., 2,824 lin.ft. 24 in. pipe, $9.90 per ft., 508 lin.ft., 16 in. $6.65, total $31,336; mains on 8 streets, 12,832 ft. 6 in. c.i. $220, 2,020 ft. 8 in. c.i. $2.60, total $33,482. Noted July 6.

Wis., Wauwatosa—Drilling artesian well to depth of 1,700 ft. with 500 ft. casing, to M. T. Peterson, 120 North Franklin St., Madison, $14,800. Noted June 15.

S. D., Harrold — Waterworks system to Bruce-Bicklehaupt, Yankton, $20,000. Noted June 22.

S. D., Waubay—For 11,000 lin.ft. 4-6 in. c.i. mains, to Phelps-Drake Co., 719 Metropolitan Life Bldg., Minneapolis, Minn., $17,108; 80,000 gal. steel tank on steel tower, to Pittsburgh-Des Moines Steel Co., 9th and Tuttle Sts., Des Moines, Ia., $6,250. Noted June 15.

Okla., Fairland—Water tower tank, deep well with pump, motor and distributing system, to Gains Bros., Fairland, and Peabody Electric Co., Muskogee, $22,800 and $12,830 respectively. Noted June 15.

Sewers

PROPOSED WORK

N. Y., Long Island City—M. E. Connelly, pres. Queens Boro, Queens Subway Bldg., rejected bids opened June 19, sewers in Brown Pl., Bittman St., Whitlock, Juniper and Firth Aves., etc. Will readvertise. Noted June 29.

Pa., Ellwood City—Plans to vote on $135,000 bonds for new sewage disposal plant, comfort station and improving various streets. Engineer not announced.

Pa., Morrisville—Making plans 14.3 mi. sewers and sewage treatment plant $316,000. W. F. Bowe, 110 William St., New York, engr.

Pa., Sharon—Completing plans for new sewage disposal plant, 1,735,000 gal. capacity, to exceed $50,000. P. S. Wickerham, city sanitary engr.

Wis., Madison—Plans sewage disposal plant on Lake Monona. H. C. Buser, city clk. Engineer not selected.

Wis., Marshfield—Making plans sanitary and storm sewers and septic tank. $40,000. T. Pankow, Washington Bldg., Madison, engr.

Ia., Glidden—Making plans sanitary sewerage system. $30,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Ont., Eastview—Soon receives bids extending sewers in Hannah and Durocher Sts., concrete or vitr. brick. $38,000. J. C. S. Wolfe, town clk.

BIDS DESIRED

Conn., Bridgeport—July 24, by Paving and Sewer Comrs., storm, sanitary and combined sewers in various streets. $100,000. J. A. McElroy, city engr.

N. Y., Brooklyn—July 26, by E. Riegelmann, boro pres., Boro Hall, sewers in Rochester Ave., between Carroll St. and East New York Ave., East New York Ave. between Rochester and Remsen Aves., Montgomery St. between Utica and East New York Aves., Ashford St. between Hegeman Ave. and end of existing sewer about point 532 ft. north and in Hegeman Ave. between Ashford and Elton Sts., Van Sicklen St. between Ave. U and Ave. T, Ave. Q between East 16th and East 17th Sts., 57th St. between 17th and 18th Aves., Union St. between Ralph Ave. and Portal St., East 28th St. between tracks of Long Island R.R. and Ave I, Nostrand Ave., between tracks of Long Island R.R. and Ave I; sewer basins on Rochester Ave., northwest and southwest corners of Union St., northeast, northwest and southwest corners of President St., northwest and southwest corners of Carroll St.

N. Y., Long Island City—July 26, by M. E. Connolly, pres., Queens Boro., Queens Subway Bldg., sewers in Brown Pl. from Grand St. to Whitlock Ave., Whitlock Ave. from Brown Pl. to Bittman St., Juniper Ave. from Whitlock to Caldwell Aves., Firth Ave. from Grand St. to Whitlock Ave., Bittman St. from Grand St. to Caldwell Ave., Caldwell Ave. from Juniper Ave. to Bittman St. with temporary connections to sewers in Juniper Ave. and Bittman St., 2nd Ward; receiving basins on southerly corner of Sothern and Corona Aves., easterly side of Corona Ave. near angle point between Sothern Ave. and Merritt Pl., 2nd Ward.

N. Y., Long Island City—July 26, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers in Ave. Q, Rochester and Nostrand Aves., Van Sicklen, Ashford, 57th, Union and East 28th Sts.

N. Y., Rochester—See "Streets and Roads".

W. Va., Wheeling—July 25, sewers in Market, Main, 12th and South Market Sts. H. A. Conrad, city engr.; adv. this issue.

N. C., Newton—See "Waterworks."

Tenn., Knoxville—Aug. 1 by J. L. Green, recdr., 6,000 yd. sewers in South Knoxville. $75,000. A. R. Frierson, Knoxville, engr.

O., Akron—See "Streets and Roads."

O., Columbus—See "Streets and Roads".

O., Columbus—July 25, by W. H. Duffy, dir. Pub. Serv., 28,480 ft. 6-15 in. sanitary sewers in Dunedin Rd. $43,844. R. H. Simpron, City Hall, engr.

O., Upper Arlington—See "Streets and Roads."

Ill., South Chicago Heights—July 24, by Bd. Village Trustees constructing main sanitary sewer outlet. A. L. Fox, Commercial Bank Bldg., Chicago Heights, engr.; adv. this issue.

Minn., St. Charles—July 31, by city, new sanitary sewerage system, 33,846 lin.ft. 8 in. and 1,775 lin.ft. 10 in. pipe, 81 manholes, 15 lampholes, 1 Imhoff tank. R. M. Dixon, clk. C. L. Pillsbury Co., 1200 2nd Ave. S., Minneapolis, engrs. Noted June 22.

S. D., Emery—July 28, by L. Schroeder, city aud., 15,868 lin.ft. 8-12 in. sewers, 35 manholes, 6 flush tanks, 1 Imhoff tank and sludge bed. $40,000. Smith & Reeves, Mitchell, engrs. Noted April 6.

Cal., San Luis Obispo—July 27, 10,900 lin.ft. 6 in. vitr. salt glazed sewer pipe, etc. W. Burch, Lowe Bldg., engr.

Sewers (Consinued)

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids July 12, sewer in (1) Troy Ave., (2) West 36th St., (3) 72nd St., (4) East 17th St., (5) Ridge Blvd., (6) Ft. Hamilton Parkway. west side between 70th and 71st Sts.. repairing sewer in (7) Ft. Hamilton Parkway near 60th St. and in 60th St. between Fort Hamilton Parkway and 19th Ave., sewer basins in (8) Otsego St., etc., from J. Jennings, 367 Fulton St., (1) $29,705, (6) $1,646, (8) $960; F. Frey, 818 Ocean Parkway, (1) $30,838, (3) $3,256, (5) $2,229, (6) $1,832, (8) $1,048; Tomasetti & Co., 1133 60th St., (1) $31,467, (2) $8,713; B. J. Donlon Contg. Co., 84 Bway., (2) $8,440; Nazarro & Querriero, Inc., (2) $9,532, (3) $3,541, (4) $3,182, (6) $1,704; Edwards & Flood, 26 Court St., (3) $3,604, (4) $3,395, (5) $1,970; Dady & Merrindino, 367 Fulton St., (4) $2,940, (5) $1,987; J. F. Cogan Co., 233 Bway., New York, (7) $76,490; Necaro Co., 97 Court St., (7) $115,895. Noted July 6.

O., Akron—M. P. Tucker, dir. Pub. Serv. opened bids July 10, (a) brick, (b) segmental block sewers in (1) 4,300 ft. Miller Ave. (2) 2,600 ft. Sweitzer Ave., (3) 2,755 ft. Crozier Ave., from Shullo Constr. Co., 932 Second Natl. Bldg., (1a) $31,746 (1b) $31,031; D. E. Beattie, 715 Chitty Ave., (1a) $34,727 (1b) $40,277 (3a) $22,261 (3b) $20,936; T. E. McShaffrey Constr. Co., 171 South Forge St., (1a) $42,273 (1b) $38,918 (2a) $30,490 (2b) $36,465 (3a) $21,626 (3b) $20,267; E. and W. McShaffrey Co., 574 Rhodes Ave., (2a) $35,780 (2b) $38,118; J. Duff Constr. Co., Marshall Bldg., Cleveland, (2a) $37,661 (3a) $24,310 (3b) $21,276. Noted July 6.

CONTRACT AWARDED

N. Y., Rochester—See "Streets and Roads."

O., Akron—M. P. Tucker, dir. Pub. Serv., segment block trunk sewer in East Tallmadge Ave., to McAlonan Bros., 506 Woodland Ave., $55,307. Noted July 13.

Mich., Detroit—For 5,358 ft. sewer Sect. 4 Clark Ave. and in Lovett Ave. from Michigan to Herbert Aves., 11 ft. 6 in. to 11 ft. 3 in. in diam., to G. R. Cooke, 1260 Penobscot Bldg., $404,648; 4,302 ft. Harper Ave. Arm Sect. 1, Connors Creek Sewer in Harper Ave. and Annsburg Ave. from Connors to Wade Aves., 6 ft. 3 in. to 6 ft. 6 in. in diam. also 3,576 ft. Piquette Ave. Arm of Bates St. Sewer in Piquette Ave., 3 ft. to 5 ft. 6 in. in diam., to J. A. Mercier, 216 Hammond Bldg., $93,827 and $59,655 respectively, 2,813 ft. Harper Ave. extension of Ashland Ave. Sewer in Harper and Nelson Aves. from Newport to Wade Aves., 3 ft. 3 in. to 4 ft. 3 in., to R. D. Baker, 1631 Elmhurst Ave., $35,703. Noted July 6.

Wis., Milwaukee—Storm and sanitary sewers, to T. Szukalaski, 1089 American Ave., Chambers St., 1,077 ft. 8-12 in. vitr. pipe, etc., $5,084, 45th St., 2,521 ft. 8-15 in. vitr. pipe, $5,780, 47th St., 3,543 ft. 8-18 in. vitr. pipe, 331 ft. 21 in. concrete pipe, $9,150, 48th St., 3,895 ft. 8-15 in. vitr. pipe, $7,911, 49th St., 2,680 ft. 8-18 in. vitr. pipe, 660 ft. 30 in. concrete pipe, $11,479, 50th St., 3,620 ft. 8-18 in. vitr. pipe, $8,242; to G. Zimmerman, 3402 Grand Ave., 44th St., 2,521 ft. 8-18 in. vitr. pipe, $7,962, 46th St., 3,131 ft. 8-15 in. vitr. pipe, 667 ft. 21-24 in. concrete pipe, $9,246; to Wenzel & Henoch, 498 27th St., Hadley St., 1,326 ft. 8-12 in. vitr. pipe, $2,859, 27th St., 235 ft. 12 in. vitr. pipe, $763; to M. Synovitz, 944 2d Ave., Locust St., 3,861 ft. 8-24 in. vitr. pipe. 273 ft. 30 in. combination pipe, 952 ft. 54 in. concrete pipe, $45,018.

Wis., West Allis—Storm sewers in 12 streets, to F. E. Kaminski, Berlin, 662 ft. 8 in. concrete pipe $0.78 per ft., 134 ft. 10 in concrete pipe, $0.86, 1,013 ft. 12 in. concrete pipe $0.95, 2,225 ft. 15 in. concrete pipe $1,18, 1,690 ft. 18 in. concrete pipe $1.43, 316 ft. 24 in. concrete pipe $2.36, 909 ft. 42 in. circular rein.-con. $6.20, 73 ft. 1 ft. 6 in. x 7 ft. inside diameter $13, 119 ft. 2 ft. x 5 ft. 4 in. inside diameter $12, 26 manholes $40 each, 59 catchbasins, $38 each; sanitary sewers in 13 streets, to Ganser & Klein, 439 64th Ave., 5,914 ft. 8 in. pipe $1.52 and $1.80 per ft., 3,248 ft. 10 in. $1.58 and $1.85 1,746 ft. 12 in. $1.65, 32 manholes $75 each. Noted July 6.

S. D., Philip—For 13,000 lin.ft. sewers and 9,100 lin.ft. water mains, etc., to W. B. Carter, 506-7 United Bank Bldg., Sioux City, Ia., $35,500.

Wash., Seattle—For 6,609 ft. 8 in. and 2,410 ft. 10 in. clay or rein.-con. sewers in 32nd Ave. S., et al., to Interstate Sonstr. Co., Seattle. Engrs. est. $36,845. Noted July 13.

Waste Disposal

PROPOSED WORK

Mich., Detroit—Detroit Reduction Co., 1116 Book Bldg., having plans prepared by Vernor, Wilhelm & Molby, archts., 520 Book Bldg., 1 story, 38 x 100 ft. rein.-con. garbage disposal plant.

Bridges

PROPOSED WORK

Pa., Curwensville—Buffalo, Rochester & Pittsburgh R. R., 155 West Main St., Buffalo, N. Y., having plans prepared for 65 ft. single track steel bridge, with concrete abutments, near here. $75,000. E. R. Robinson, c/o owner, engr.

Pa., Renovo—Plans to eliminate grade crossing and build large viaduct over 5 tracks of Pennsylvania R.R., on Main St. $161,121.

Mich., Bad Axe—State Hy. Dept., Lansing, soon takes bids Bridge 322,801, 90 ft. concrete girder, 24 ft. wide, Winsor Twp., Huron Co.

Ont., Ottawa—Bronson Co., Middle St., plans to purchase light steel highway bridge, 60 ft. span, truss or girder.

BIDS DESIRED

Pa., New Castle—July 25, by J. R. Lamorie, clk. Lawrence Co. Com. building six bridges as follows:—(1) and (2) 33 ft clear span, rein.-con. through girder bridge over Jenkins Run, on Route 77, with new stone abutments, etc., to be removed from present steel bridge (3) taking down, cleaning, painting and renewing wooden floor system, moving about 1 mi. and erecting on new plain concrete abutments a 72 ft. span steel bridge over Hickory Creek, on Route 77, (4) building on present stone abutments a 45 ft. clear span, rein.-con. girder bridge at McConnells Mills, (5) 33 ft. span rein.-con. girder bridge on plain concrete abutments over Potters Run, (6) 18 ft. clear span rein.-con. slab floor bridge over Eckles Run, to exceed $25,000. G. Zahniser, co. engr.

Georgia—Aug. 1, by W. R. Neel, state highway engr., Atlanta, 3 steel and concrete bridges on Gainesville-Cleveland Rd., White Co., 2 to have three 22 ft. spans and other four 26 ft. spans. State to furnish cement. H. W. Morgan, Jackson Bldg., Gainesville, engr.

Ga., Atlanta—Aug. 10, by J. N. Landers, purch, agt., City Hall, Spring Street Viaduct, Contrs. 1 and 2. Harrington, Howard & Ash, Kansas City, and Robert & Co., Inc., Atlanta, associated consult. engrs.; adv. this issue.

Fla., Ft. Lauderdale—Aug. 1, by Broward Co. reconstructing bridge over New River Sound, incl. 9 piles, 60 pedestals, 2 rest piers all concrete, 700 cu.yd. rein.-con. and boulder, riprap and timber bulkheads on Lasolas Blvd. with some fill. H. C. Davis, Ft. Lauderdale, engr.

Tennessee—See "Streets and Roads."

Ohio—July 31, by Dept. Highways and Pub. Wks., Columbus, bridges in following counties:

Union Co., Sect. "M" Marysville-Kenton Rd., girder, $3,761.

Pickaway Co., Sect. "U" Columbus-Portsmouth Rd., $12,565.

Hancock Co., Sect. "F" Lima-Sandusky Rd., girder and abutments, $3,446.

Ashtabula Co., Sect. "R" Cleveland-Buffalo Rd., rein.-con. viaduct, $371,900.

Clark Co., Sect. "G" Springfield-Washington C. H. Rd., rein.-con. beam, $3,056.

Athens Co., Sect. "E" Logan-Athens Rd., rein.-con., $5,717.

Brown Co., Sect. "F" Milford-Hillsboro Rd., $2,777.

Holmes Co., Sect. "B-1" Mansfield-Millersburg Rd., $5,829.

Knox Co., Sect. "A" Columbus-Wooster Rd., $4,519.

Knox Co., Sect. "E" Columbus-Wooster Rd., $4,022.

Muskingum Co., Sect. "N" National Rd., $9,884.

Clark Co., Sect. "N" National Rd., repairing bridges, $2,349. L. C. Herrick, dir. highways.

O., Columbus—Aug. 10, by Franklin Co. constructing approaches and paving Greenlawn Ave. bridge, 2,800 sq.yd. bituminous macadam and 8,100 cu.yd. fill, $21,400; furnishing materials for repairs to bridge at Taylors Sta., $1,100; extending Bridge 179 on McKinley Ave., Franklin Twp., $1,623; constructing culvert 174, on McKinley Ave., Franklin Twp., $2,933.

Kan., Kingman—Aug. 4, by Clerk Kingman Co., 266 ft. bridge, with seven 38 ft. deck girder spans, 6 piers, 2 concrete abutments; Red Creek Bridge, 67½ ft. long, with three 22½ ft. spans, 2 concrete piers, 2 concrete abutments, $7,500; Wild Horse Creek Bridge, 67½ ft. long, with three 22½ ft. spans, 2 concrete piers, 2 abutments, $6,000. C. C. Martin, Kingman, engr.

Cal., San Francisco—City and San Francisco Co. taking bids 585 lin.ft. plate girder bridge at Six-Bit Gulch on Hetch Hetchy R.R., 9 single track deck spans, each 65 ft. long. M. M. O'Shaughnessy, city engr.

Cal., Stockton—Aug. 8, by Supervs. San Joaquin Co., 9 rein.-con. bridges on Jack Tone Rd., 764 cu.yd. concrete, 61,391 lb. reinforcing, $16,800; 2 rein.-con. bridges on McKinley Ave., one with four 17 ft. spans, other with four 16 ft. spans, 335 cu.yd. concrete, 28,289 lb. reinforcing, $10,080. F. E. Quail, co. surv.

BIDS RECEIVED

N. Y., Long Island City—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York, opened bids July 14, reconstructing centre pier fender of Meeker Ave. Bridge over Newtown Creek, from Shelbourne & Blake Co., 74 Bway., New York. $19,407; A. M. Hazell, Inc., 26 Cortlandt St., New York, $19,549; A. N. Spooner & Son, Pier 11, North River, New York, $24,960. Noted July 6.

Pa., Williamsport—Comrs. Lycoming Co. opened bids July 11, 1,500 ft. concrete bridge over west branch of Susquehanna River between Arch St., West Williamsport and Hight St., Duboistown, 13 open spandrel arches, 98 ft. clear space, from Whittaker & Diehl, Union Trust Bldg., Harrisburg, $372,839; alternate, steel truss, 7 spans on rein.-con. piers from Bethlehem Steel Bridge Co., Bethlehem, $271,170. Noted June 15.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids July 14, bridges in following counties: Ottawa Co., Sect. "L" Toledo-Elmore Rd., concrete, from La Boiteaux & Hayes, Toledo, $7,001, J. H. Murphy Sons, Burgoon, $7,137, F. F. Walton, Upper Sandusky, $7,582; Preble Co., Sect. "Eaton Bridge" Dayton-Indianapolis Rd., from E. F. Smith, Indianapolis, Ind., $24,571, I. E. Smith, Richmond, Ind., $24,598, F. K. Vaughn Co., Hamilton, $24,740; Ross Co., Sect. "G" Chillicothe-Jackson Rd., from E. F. Bearce, Chillicothe, $5,456, M. M. Girton, Washington C. H., $5,779; Athens Co., Sects. "E, C and J" Logan-Athens Rd., from O. R. Couch, Kent, $13,732; Erie Co., Sect. "H" Cleveland-Sandusky Rd., timber retaining wall, from H. A. McDonald, Norwalk, $4,335, J. J. Cuddeback, Vermillion, $4,845, A. N. Richards & Sons, Willard, $4,972. Noted July 6.

CONTRACTS AWARDED

N. Y., Hewitville (Potsdam P. O.)—Town Clerk, Potsdam, 340 ft. rein.-con. and steel bridge, 16 ft., over Raquette River, here, to McCormick & Gregor, Herkimer, $27,000. Noted June 29.

N. J., Salem—Salem Co. for Bridge 57 M. P. O. O. W. on Route 6 State Highway System, over Fennick Creek, to S. Campbell, 197 North Pearl St., Bridgeton, $58,645. Noted June 22.

West Virginia—See "Railways."

South Carolina—State Hy. Dept., Columbia, rein.-con. bridge with four 22 ft. spans also bridge with thirteen 22 ft. concrete spans and one 168 ft. steel span, Project 175, Union Co., to Genl. Rd. and Drainage Constr. Co., Liberty Bank Bldg., Columbia, $38,099. Noted June 15 under Union.

Fla., Century—Escambia Co. (Pensacola). rein.-con. deck girder bridge on 6 rein-con. piers and 2 rein.-con. abutments, timber foundation piles, 18 ft. clear roadway, over Escambia River, here, to H. C. Turner Constr. Co., Pensacola, $30,125. Noted June 15.

Tennessee—State Hy. Dept., Nashville, substructure for Clarksville Tennessee Bridge over Cumberland River, Federal Aid Project 16, to Gould Contg. Co., Independent Life Bldg., Nashville, $196,891. Noted June 22.

Ohio—See "Streets and Roads."

Mich., Grand Haven—F. F. Rodgers, state highway comr. at office City Manager, substructure and channel protection work for swing bridge No. 701,302 with three 100 ft. deck truss spans, one 212 ft. through swing span, 24 ft. roadway and two 5 ft. walks, incl. 1,869 cu.yd. rein.-con., 2,104 cu.yd. concrete, 230,910 lb. steel, to J. H. Baer, 402 Owen Bldg., Detroit, $97,451. Noted June 1.

Ia., Sioux City—For 340 ft. concrete bridge over Big Sioux River, near here, eight 42 ft. concrete deck girder spans, 30 ft. roadway and 6 ft. sidewalks, to Schreiber Constr. Co., Watertown, S. D., $58,800. Engrs. est. $50,000. Noted June 8.

Kan., Troy—See "Streets and Roads."

Colorado—State Hy. Dept., Denver, 0.52 mi. bridge on State Rd. 45, new Sante Fe Trail, three 120 ft. trusses, 20 ft. roadway, to Rogers & Pickard, 302 Tramway Bldg., Denver, $61,264. Noted July 6.

Cal., Salinas—Supervs. Monterey Co., (a) Proposition 1, including two 80 ft. pony

Bridges (Continued)
trusses, three 180 ft. through spans. 21 ft. roadway, (b) Proposition 2, three 180 ft. through steel spans and two 80 ft. pile trestles, from Standard Industrial Eng. Corp., 550 Montgomery St., San Francisco, (a) $119,000, (b) $104,000; E. Nommensen, 134 South 8th St., San Jose, (a) $129,400, (b) $104,336; Security Bridge Co., Santa Maria, (a) $137,500, (b) $111,110. Contract awarded to Standard Industrial Eng. Corp., on (a) $119,000. Noted June 22.

Dams

PROPOSED WORK

O., Chagrin Falls—I. H. Huggett, 736 Society for Savings Bldg., Cleveland, plans to dam Aurora and Chagrin Rivers near here, also construct roadways, bathing beach, dance pavilion buildings and clubhouse. $35,000-$50,000.

CONTRACTS AWARDED

Cal., Palmdale — Palmdale Irrigation Dist., Little Rock Irrigation Dist. and Palmdale Water Co., concrete dam 700 ft. long at top, 145 ft. high, 23,000 cu.yd. concrete, to Bent Bros., 1714 Eagle St., Los Angeles, about $500,000. Owners furnish cement, reinforcing steel and gates.

Railways

PROPOSED WORK

California—City and County of San Francisco plan loop track for Municipal Ry. at Market St. and Grant Ave. $40,000. M. M. O'Shaughnessy, San Francisco, city engr.

CONTRACTS AWARDED

West Virginia—Hardy Coal Co., Huntington, 5.8 mi. branch railroad up Four Pole Creek near Panther leading from Norfolk & Western Lines, to H. M. Waugh, Bluefield.

West Virginia—Virginian R.R. Co., 60 Wall St., New York, 3.6 mi. heavy railroad down Laurel Fork from Virginian & Western R.R. at Virwest, incl. 7 concrete bridges, to H. M. Waugh, Bluefield.

Texas—Chicago, Burlington & Quincy R.R., 179 West Jackson Blvd., Chicago, 14 mi. standard gauge branch line from Byers, Tex., to Waurika, Okla., to F. Kell, Wichita Falls, Tex.

Excavation and Dredging

PROPOSED WORK

Cal., Fall River Mills—Fall River Mills Irrigation Dist. plans system including canals and 3 pumping plants. J. H. Creighton, Glenburn, trustee. Engineer not selected.

Wis., Shawano—Farm D. D. No. 1, rejected bids draining 7.7 mi. Will readvertised. A. L. Schmitz, Shawano, secy. Noted June 29.

BIDS DESIRED

N. Y., Brooklyn—July 26, by E. Riegelmann, boro pres., dredging in Newtown Creek Canal, English Kills, Stagg St. basin, basin between Johnson and Montgomery Aves., and in Metropolitan Ave. basin.

Ind., Kokomo—Aug. 12, by E. Hunt, surv. Howard Co., dredging Kokomo Creek; adv. this issue.

Ill., Bloomington—Aug. 18, by Trustees Bloomington & Normal Sanitary Dist., 404 Unity Bldg., constructing open channel work. Taylor & Woltmann, 428 Unity Bldg., engrs.; adv. this issue.

Wis., Hampden—Aug. 1, by Columbia Co. Farm Drainage Bd., cleaning out and reconstructing 4 mi. open ditch, 14,000 cu.yd. earth and 500 cu.yd. rock excav. H. V. Tennant, Portage, engr.

Ia., Boone—July 28 by Auditor Boone Co., County Drain 195, 22,883 lin. ft. 6-26 in. tile. $25,000. J. A. Illeman, Boone, engr.

Mo., Benton—Aug. 14, by Scott Co., ditches in D. D. 15. C. E. Swank, Charleston, engr.; adv. this issue.

Ore., Grants Pass—Aug. 8, by Grants Pass Irrigation Dist., 4 mi. new canal and enlarging 2 mi. old canal, 167,000 cu.yd. earth, and 13,000 cu.yd. rock excav. Probably steam shovel work. $100,000. J. H. Fertig, Grants Pass, engr.

Cal., Merced—Aug. 1, by Directors, Merced Co. Irrigation Dist., excavation and earthwork construction of Lake Yosemite-LeGrand canal (bids may be submitted on all or any division) canal in Div. 1, 16 ft. wide on bottom and 7.8 ft. deep, approximately 49,900 ft. long; canal in Div. 2, varying sizes to wit; 6,400 ft. 16 ft. wide on bottom and 7.8 ft. deep, 14,400 ft. 10 ft. wide on bottom and 6 ft. deep, 6,850 ft. 8 ft. wide on bottom and 5.5 ft. deep, about 7,450 ft. 5 ft. wide on bottom and 5.5 ft. deep; canal in Div. 3, varying sizes to wit; 23,535 ft. 8 ft. wide on bottom and 5.5 ft. deep, 16,425 ft. 5 ft. wide on bottom and 5.5 ft. deep, 4,740 ft. 5 ft. wide on bottom and 4.2 ft. deep. R. C. Starr, ch. engr. Noted Feb. 23.

BIDS RECEIVED

N. C., New Bern—Bd. Drainage Comrs., drainage improvements in Beaufort Co. D. D. 10, Beaufort and Craven Counties, from Indiana Dredging Co., Royal Centre, Ind., $113,260; E. M. Williams, Monroe, Ga., $115,333; A. V. Wills & Sons, Title Guaranty Bldg., St. Louis, Mo., $123,094. Noted June 8.

Streets and Roads

PROPOSED WORK

N. Y., La Salle—Marquette Parkway Corp., Niagara Falls, purchased 157 acres here and plans extensive improvements, incl. building of 1 mi. macadam boulevard 100 ft. wide, with double driveways; paving and constructing many streets; grading, placing sewers and water mains in all streets. Will construct boat houses, beach, etc., later. To exceed $100,000. W. E. Hosler, 556-11th St., Niagara Falls, pres. Engineer not announced.

N. Y., Salamanca—State Park Comn. plans macadamizing road from here to new Alleganey State Park. $200,000. Address A. T. Fancher, Salamanca.

Pa., Ellwood City—See "Sewers."

Pa., Erie—Rejected bids paving 17 streets. $38,000. Will readvertise. F. G. Lynch, city engr. Noted June 15.

Pa., Erie—Soon takes bids asphalt paving Cranberry St. $22,800, Perry St. $7,850, 26th St. $7,200, also sanitary sewer in Front Ave., $500. F. G. Lynch, city engr.

Pa., Erie—Soon takes bids paving Chestnut St. from 26th to Peach Sts., asphalt. $26,000. F. G. Lynch, city engr.

W. Va., Morgantown — Battell Dist., Monongalia Co., to vote Aug. 19, on $375,000 bonds for roads. A. J. Barrtell, co. engr.

W. Va., Wayne—Lincoln Dist., Wayne Co., to vote Aug. 8, on $150,000 bonds for roads. H. Adkins, clk.

N. C., Greensboro—Plans paving Gaston, Florence and North Cedar Sts. and widening Greene St. $50,000. P. C. Painter, city mgr.

N. C. Greensboro—Guilford Co. plans concrete or asphaltic surfacing 9 mi. road between here and Pleasant Garden via Vandalia. $215,000. W. C. Jones, High Point, comr.

N. C., Lumberton—Bd. Aldermen authorized sale of additional $200,000 bonds for street improvements.

Fla., Pensacola—Having plans prepared grading, curbing and paving with vitr. brick, asphalt, concrete or asphaltic concrete on concrete base, 14th Ave., Independence, La Rua, Barcelona, Strong and Gonzaley Sts. $50,000. F. Janett, city engr.

Ohio—Dept Highways and Pub. Wks., Columbus, cancelled bids which were to be opened July 14, grading, bridging and paving 3.96 mi. Sects. "D-2 and E" Alliance-Minerva Rd., Stark Co. Noted July 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, received no bids opened July 14, grading, bridging and improving 0.86 mi. Sect. "A-1" Gallipolis-Crown City Rd., Gallia Co., plain concrete 2.157 mi., Sect. "K-1" Ohio River Rd., Jefferson Co., brick. Noted July 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, rejected bids received June 30 grading, bridging and paving 1.65 mi. Sect. "L-1" Springfield Washington C. H. Rd., Clark Co. Noted July 13.

O., Akron—M. P. Tucker, dir. Pub. Serv., takes bids in August grading and paving 2,600 ft. North Main St., 56 ft., brick or asphalt. $60,000-$90,000. E. A. Kemmler, Delaware Bldg., engr.

O., Chagrin Falls—See "Dams."

O., Columbus—Franklin Co. plans grading and paving 0.492 mi. Belknap Rd. in Plain Twp., $10,046; 0.86 mi. Mix Rd., Prairie Twp., $21,970; both waterbound macadam. C. C. Lattimer, Court House, engr.

O., Columbus—Plans grading, curbing and paving 5th Ave. from Sunbury Ave. to point 490 ft. east of Nelson Rd., north St. from High St. to Neil Ave., 16th Ave. from Lexington to Brooks Aves. R. H. Simpson, city engr.

Michigan—State Hy. Dept., Lansing, rejected bids grading and surfacing 2.564 mi. State Trunk Line Rd. 13-16, Kent Co., 15,491 cu.yd. excav., 27,073 sq.yd. asphalt, concrete or bituminous concrete Will readvertise. L. H. Belknap, ch. engr. Noted May 18.

Michigan—State Highway Dept., Lansing, soon takes bids grading and surfacing 3 mi. Assessment Dist. Rd. 209, Bay, Caginaw and Tuscola Counties, 16 ft. stone gravel or macadam; 2½ mi. Federal Aid Project 45, Sect. B-1, Ingham Co., 18 ft. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Mich., Detroit—Had plans prepared paving with 3½ in. sheet asphalt on 8 in. concrete, Dickerson St. $26,830, Gray St. $27,260, Bezner St. $28,130, Springle St. $27,700, Malvern Ave. $7,740, Dakota St. $16,180, St. John St. $33,930, all above 26 ft. wide, Fairfield Ave., 24 ft., $44,550; paving 4 alleys with one-course concrete, totalling $17,980. J. W. Reid, city engr.

Mich., Detroit—Having plans prepared grading and paving Wildemere Ave., $17,230, 14th Ave., $5,420, with 3½ in. sheet asphalt on concrete, also 7 alleys with one course concrete totaling $28,455. J. W. Reid, city engr.

Wis., Janesville—Making plans paving Ringold, Reeger, 2nd and North 1st Sts., 25 ft., asphalt or one course concrete. $25,000. C. V. Keich, City Hall, engr.

Ia., Albia—Plans paving and curbing 12 blocks. $40.000. C. C. Atchison, clk.

Ia., Davenport—Plans paving various streets, asphaltic concrete, sheet asphalt, Willite or bitulithic, $35,458; alleys with concrete, $7,490. R. Earle, city engr.

S. D., Mitchell—Making plans paving 6 blocks East 6th St. $25.000. F. McGovern, city aud.

S. D., Sioux Falls — Plans paving 15 blocks 8th St. between Weber and Cliff Aves. and between Cliff and Asylum Aves., 2nd Ave. between 10th St. and Chicago, St. Paul, Minneapolis & Omaha Ry. tracks. $45,000. W. C. Leyse, city aud.

S. D., Sioux Falls—Minnehaha Co. (Sioux Falls) and Moody Co. (Flandreau), plan grading and graveling 10 mi. road between Dell Rapids, S. D., and Jasper, Minn. $35,000. F. E. Ward, aud. Minnehaha Co. E. A. Hornby, aud. Moody Co.

Missouri—State Hy. Dept., Jefferson City, plans 6.7 mi. road from Paris, eastward, westward and northeastward, State Aid Project 20.181, Monroe Co., 37,266 cu. yd. earth excav., 3,536 cu.yd. borrow, 198.1 cu. yd. concrete masonry, etc.; surfacing road from Bethany northward and southward, Federal Aid Project 8, Harrison Co., 2.471 mi. 1½-2 in. rock asphalt on 8 in. sledged stone, 3,115 mi. 2½ in. penetration bituminous macadam on 8 in. sledged stone, 2.66 mi. 2 in. asphaltic concrete on 8 in. sledged stone, 3,361 mi. 4 in waterbound macadam intermediate course and lin. inverted penetration macadam surface course on 6 in. sledged stone, all foregoing 18 ft. wide, 2,717 mi. 1 course cement concrete, 7 in thick, 16 ft. wide. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept. at div. office Liberty, rejected bids opened bids June 5, improving road from Liberty to Excelsior Springs, Federal Aid Project 25 and road from North Kansas City to Nashua, Federal Aid Project 6A, both Clay Co Noted July 13.

Tex., Anson—Jones Co. defeated $400.000 bond issue for roads and bridges in Dist. 5, Precinct 2. New election will probably be held. H. D. Wade, Chamber of Commerce, Stamford, secy. Noted June 8.

Tex., Brownsville—Cameron Co. making plans grading and surfacing with 2 course concrete, 10.3 mi. State Highway 12 from Harlingen to Hidalgo Co. line, 345 cu.yd. concrete, 109,020 sq.yd. concrete pavement. $406,234. W. O. Washington, co. engr. Noted June 29.

Tex., Center—Shelby Co. Jonaquin Dist. voted $75,000 bonds for highway improvements. T. H. Dillon, co. engr.

Tex., Ennis—Defeated $75.000 bond issue for street paving. R. A. McCulloch, city mgr. Noted June 1.

Tex., Marlin—Falls Co. making plans grading and gravel surfacing 12 mi. State Highway 44 from north line Precinct 3 to south line Dallas Co., 36,000 cu.yd. borrow, 36,000 cu.yd. roadway excav., 2,110 cu.yd. concrete, 42,240 cu.yd. gravel surfacing. $200,057. G. W. Courter, co. engr.

Tex., Paris—Lamar Co. making plans surfacing 6.06 mi. State Highway 5 east of here to Red River Co., 12 ft., incl. 17,400 cu.yd. gravel, $41,563; 9.24 mi. State Highway 19, south of here to Delta Co. line, 12 ft., 12,983 cu.yd. sledged limestone rock base and 8,124 cu.yd. gravel topping, $74,122. W. M. Fooshee, co. engr.

Tex., Seguin—Guadalupe Co. making plans surfacing state highway 3, 18 ft., 173,896 sq.yd. 1 in. bituminous topping, 202,646 lin.ft. concrete curbing, 6,000 cu.yd. earth excav. $125,000. S. C. McCarty, Seguin, engr.

Cal., San Bernardino—Bd. Supervs. San Bernardino Co., takes new bids about August 1, 380,160 sq. ft. 4 in. concrete pavement, Hellman Ave. et. al. $108,500.

Streets and Roads (Continued)

Former contract rescinded, H. L. Allison, co. clk. Noted July 6.

Cal., Yuba City—O. W. Lanzendorf, engr. of Sutter Co. plans to create joint highway dist. for purpose of levying assessment to provide for completion of 13 mi. stretch to make continuous highway between here and Sacramento. State will appropriate $15,000 of total cost which is $150,000. Supervs. of Sacramento Co. are expected to take similar action.

Que., Montreal—Plans cement sidewalks on St. Charles St. $2,714; 562 ft. Iberville St. $3,437; 187 ft. Chenier St. $1.057; 562 ft. Harvard St. $3,515; 750 ft. Poupart St. $3,814; 2,437 ft. Wustele St. $15,876; 562 ft. Frontenac St. $3,086; 469 ft. Chateaubriand St. $1,589; 750 ft. St. Denis St. $2,286; 1,874 ft. Castelnan St. $4.701; 937 ft. Decarie Blvd. $3,530; 281 ft. Delormier Ave. $1,434; 2,250 ft. Henrie Julien Ave. $13,482; also roads on 562 ft. Van Horne Ave., 62 ft. wide, $12,258; 938 ft. Mazarin St., 50 ft. wide, $15,354; 16,000 ft. Comte St., 50 ft. wide, $28,419.

Ont, Pembroke—Soon takes bids paving Trafalgar Rd., Pembroke St., E., Huicks and Isabella Sts., asphaltic concrete and bituminous macadam. $53,000. S. L. Briggs, town clk.

Ont., Simcoe—Having plans prepared and takes bids early in August, paving Argyle, Robinson, Queen and West Sts., tarvia macadam. $35,000. G. R. Marston, Simcoe, engr.

Mexico-Tampico—Plans 7 kilometer road from here to Gulf of Mexico, Willite top on macadam base. $200,000. Address J. D. Hickerson, Tampico, Amer. Vice Consul.

BIDS DESIRED

Connecticut—July 26, by C. J. Bennett, state highway comr., Hartford, paving 20,125 lin.ft. in Coventry, bituminous macadam; 3,000 lin.ft. in Ellington, gravel; and 2,650 lin.ft. in Norwich, cement concrete; adv. this issue.

Conn., Farmington—L. C. Root, chn. street com., taking bids paving 5,125 ft. Gorden St., 16 ft., bituminous macadam. $25,000. Private plans.

N. Y., Brooklyn—July 26, by E. Riegelmann, boro pres., Boro Hall, paving Division Pl., Bay 32nd, Dikeman, Midwood, 85th and Bradford Sts., Dumont, Hegeman and 19th Aves., Midwood and Rutland Rds.; grading and curbing Hegeman Ave., Beadel and East 2nd Sts.; grading Empire Blvd., Schenectady and Hinsdale Aves.; curbing Ave. K, Hinsdale Ave. and Sunnyside court; repaving Wilson and Johnson Aves., High, Wyona, 7th and 17th Sts.

N. Y., Lockport—July 29, by F. H. Krull, clk. Niagara Co., concrete paving 2 mi. Shawnee Rd. 16, 16 ft. wide. $25,000. T. Brennan, co. engr. Noted July 13.

N. Y., Long Island City—July 25, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and laying sidewalks on Buckley St., etc.; paving Kingsland Ave., sheet asphalt and granite block, Newtown Road. and Washington Ave.; regulating 13th and Jamaica Aves.; curbing John St.; curbing and laying sidewalks on Park Lane; grading, curbing, recurbing, flagging and reflagging 46th St., etc.; repairing sheet asphalt pavements in 1st and 2nd Wards.

N. Y., Rochester—July 26, by Bd. Contract & Supply paving Lafayette Pl., $3,700; resurfacing Wilmer St., $6,600 both asphalt; sewers and walks on Merchants Rd., $33,000; grading, sewers and walks on Arnett St., $11,300. C. A. Poole, city engr. Noted June 29.

N. J., Hackensack—Aug. 9, by Bd. Freeholders Bergen Co., Court House, constructing Sect. 3, Route 10 from Boro of Little Ferry to Boro of Ridgefield, rein.-con. J. M. Harkness, clk.; adv. this issue.

N. J., Woodbury—Aug. 10, by Gloucester Co. constructing Route 6, Sect. 14 in city of Woodbury, reinforced cement concrete. W. C. Cattell, co. engr.; adv. this issue.

Pa., Hallstead—Aug. 4, by Boro Council, concrete highway on Susquehanna Ave., Franklin, Pine and Main Sts. Hoadley & Giles, 415 Phelps Bldg., Binghampton, N. Y., civil engrs.; adv. this issue.

Pa., Phila.—July 25, by F. H. Caven, di. pub. wks., grading Chew Ave. from 12th to 13th Sts. and Marshall St. from Bristol to Cayuga Sts., 5,659 cu.yd. excav., $10,000; paving Water St. from Tabor Rd. to Clarkson Ave., 2nd St. from Mentor St. to Roosevelt Blvd., 1,561 sq.yd. vitr. brick, 3,904 sq.yd. asphalt, 782 sq.yd. concrete, $25,000; Mascher St. from Tioga to Venango St., Wakeling St. from Horrocks to Large Sts., 1,579 sq.yd. vitr. brick, 3,172 sq. yd. asphalt, 761 cu.yd. concrete, $26,000; Fillmore St. from Oakland to Lapeer Sts., 658 sq.yd. vitr. brick, 4,829 sq.yd. asphalt, 500 ft. concrete curb, 1,021 cu.yd. concrete, $25,000; C St. from Ruscomb to Eleanor Sts., 1,316 sq.yd. vitr. brick, 11,959 sq.yd. asphalt, 2,213 cu.yd. concrete, $30,000; Watts St. from Girard Ave. to Thompson St., 2,627 sq.yd. granite block, 580 ft. cement curb, 821 cu.yd. concrete, $25,000; Green St. from 19th to 21st Sts., 544 sq. yd. granite block, 1,852 sq.yd. wood block, 644 cu.yd. concrete, $26,000; Alleghany Ave. from Chatham to Miller Sts., 800 sq. yd. vitr. brick, 585 sq.yd. granite block, 11,950 sq.yd. asphalt, 1,194 cu.yd. concrete, $35,000; Robbins St. from Rising Sun Ave. to end of street, 5,940 sq.yd. bituminous, $25,000; 2nd St. from Wyoming Ave. to Mentor St., 3,620 sq.yd. vitr. brick, 240 ft. concrete curb, 1,210 sq.yd. concrete, $28,000. F. C. Dunlap, City Hall, engr.

Pa., Wilson—July 24, by E. C. Yeager, boro. secy., grading, curbing and paving with Telford macadam bituminous, Freemansburg Ave., from 20th to 24th Sts., and from 24th to 25th Sts., $25,000. L. A. Weaver, boro. engr.

Maryland—Aug. 1, by State Roads Comn., Baltimore, concrete paving 1.35 mi. highway, Contr. F-52, Frederick Co.; 1.5 mi. Contr. H-23, Howard Co.; 1 mi. Contr. H-29, Harford Co.; 2 mi. Contr. C-41, Cecil Co.; 2 mi. Contr. Q-22, Queen Annes Co.; 1 mi. Contr. D-25, Dorchester Co.; 2 mi. Contr. Wi-21, Wicomico Co.; graveling 2.6 mi. Contr. Ch.-23, Charles Co., J. N. Mackall, chn.; adv. this issue.

D. C., Wash.—July 31, by Dist. Comrs., 509 Dist. Bldg., grading, improving and paving streets, roads and avenues; adv. this issue.

W. Va., Clarksburg—July 28, improving Milford, North 4th, 1st, School, Farris, Sumner, Virginia, West Pike, Adamston, Webster, Hartway, Locust, South 7th, South 3rd, Lee, Wilson, Werninger, Fayette and Rolland Sts., Euclid, Magnolia, Hamill, Goff, Virginia, Traders and Woodland Aves., and constructing Adamston Bridge and approaches, work involves 40,500 lin. ft. straight curb, not armored, 3,000 lin. ft. radius curb, armored 10,000 cu.yd. earth excav., 14,000 sq.yd. brick paving, 2,500 cu.yd. concrete base, 6,000 cu.yd. rein.-con. paving 300 sq.yd. of 4 in. concrete sidewalks, 1,200 lin.ft. 12-24 in. vitr. pipe. D. H. Hamrick, city clk.

N. C., Albemarle—Bd. Comrs. receiving bids 30,000 sq.yd. cement concrete sidewalks, 9,000 cu.yd. grading. $35,000. G. C. White, Durham, engr.

N. C., Lenoir—Aug. 3, 35,000 sq.yd. concrete or asphaltic paving, 26,000 ft. combined concrete curb and gutter, 12,000 sq. yd. cement sidewalks, etc. Ludlow Engrs., Winston-Salem, engrs. Noted May 18.

South Carolina—Aug. 2, by Richland Co. Permanent Rds. Com., at Room 31. Arcade Bldg., Columbia, grading and paving 15.1 mi. Columbia-Camden Highway, Richland Co., 27,000 cu.yd. excav., 161,000 sq.yd. pavement. Alternate proposals on 7 in. plain cement concrete pavement or 5 in. concrete base with asphaltic concrete or sheet asphalt wearing surface. J. R. Pennell, Arcade Bldg., Columbia, engr.

S. C., Columbia—July 25, by Mayor and City Council, for 15,000 sq.yd. roadway pavement, 5,000 cu.yd. excav., 2,600 lin.ft. combination curb and gutter, 500 lin. ft. reset curb, 2,500 lin.ft. storm drains and necessary appurtenances, 1,500 sq.yd., sidewalks, 1,200 sq.yd. gutter. W. S. Tomlinson, city engr.

Georgia—Aug. 1, by W. R. Neel, highway engr., Atlanta, gravel surfacing 2½ mi. Dixie Highway between Barretts Creek and Bartow Co. line, Federal Aid Project 224, Gordon Co., 199 cu.yd. concrete, 16,966 cu.yd. earth and 400 cu.yd. rock excav., 5,749 cu.yd., sand clay surfacing, bridges incl. 198 lin.ft, concrete pipe, 20,540 lb. reinforcing, 70 cu.yd. dry and 120 cu.yd. wet excav.; topping 7.5 mi. Gainsville Cleveland Rd. between Hall Co. line and Cleveland, Federal Aid Project 281, White Co., 389 cu.yd. concrete, 18,761 lb. reinforcing, 2,622 lin.ft. drain pipe, 1,466 cu.yd. surfaced ditches, 19,629 cu.yd. topsoil, 41,023 cu.yd. earth and 7,803 cu.yd. rock excav.; grading 2.4 mi. Clayton Hiawassee Rd. between Clayton and Hiawassee, Federal Aid Project 187, Rabun Co., 112.08 cu.yd. concrete, 20,314 cu.yd. earth and 7,290 cu.yd. rock excav., 7,627 lb. reinforcing. All cement furnished by state.

Louisiana—Aug. 1, by State Hy. Comn., Redmond Bldg., Baton Rouge, gravel surfacing 9.17 mi. Greenburg-Fluker Highway. Sects. A and B, Tangipahoa and St. Helena Parishes. J. M. Fourmy, ch. engr.

Louisiana—Aug. 8, by State Hy. Comn., Redmond Bldg., Baton Rouge, paving 1.61 mi. Baton Rouge-St. Francisville Highway from city limits of Baton Rouge to Weller. East Baton Rouge Parish, asphaltic concrete, warrenite bitulithic or vitr. brick on 6 in. concrete. J. M. Fourmy, ch. engr.

Tennessee—July 28, by State Hy. Dept., Nashville, paving and bridging 10.04 mi. road between Rockwood and Kingston, Roane Co., 20 ft., 94,000 cu.yd. earth and 8,000 cu.yd. rock excav., (to be bid on as whole or roadway and bridges separate). $260,400. D. A. McComb, Nashville, ch. engr.

Tenn., Knoxville—Aug. 15, by J. L. Green, recdr., curbing, guttering and paving 25,000 yd. Patton, Walker, Woodbury, Ivy, Lynch and Payne Sts., 20-30 ft., asphalt, $50,000; repairing macadam base and topping with bituminous 7 blocks Central Ave. to end of city limit, 20-30 ft., $27,000, (contract for this portion of highway must contain five years maintenance clause). H. Kidd, city engr.

Ohio—July 31, by Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties:

Allen Co., Sect. "Elida" Lima-Delphos Rd., 0.494 mi., rein.-con., $15,131.

Allen Co., Sect. "F" Lima-Delphos Rd., 4.178 mi., bituminous macadam, asphalt or tar, $113,925; Kentucky rock asphalt, $131,730; bituminous concrete, $131,564; rein.-con., $126,335.

Ashtabula Co., Sect. "R" Cleveland-Buffalo Rd., 0.371 mi., brick, $31,508.

Fulton Co., Sect. "C" and "Wauseon" Wauseon-Napoleon Rd., 0.998 mi., rein.-con., $29,866.

Fulton Co., Sect. "L-1" Archbold-Fayette Rd., 1.018 mi., rein.-con., $21,541; bituminous macadam asphalt or tar, $19,249.

Harrison Co., Sect. "L-2" and "K" Nidgeport-Cadiz Rd., 5.165 mi., bituminous macadam, asphalt or tar, $157,633.

Jefferson Co., Sect. "A" Mingo-Smithfield Rd., 3.714 mi., bituminous macadam asphalt or tar, $109,861.

Jefferson Co., Sect. "New Alexandria" iMngo-Smithfield Rd., 0.227 mi., bituminous macadam, asphalt or tar, $8,180.

Knox-Licking Counties, Sect. "K" Columbus-Millersburg Rd., 1.42 mi., rein.-con., $44,736.

Mercer Co., Sect. "Celina" Celina-Wabash Rd., 0.261 mi., rein.-con., $13,061; brick, $17,525.

Morgan Co., Sect. "C" McConnelsville Rd., 1.8 mi., rein.-con., $52,666.

Morgan Co., Sect. "C" McConnelsville-Zanesville Rd., 2.1 mi., bituminous macadam, asphalt or tar, $58,697.

Muskingum Co., Sect. "F-2" Zanesville-New Lexington Rd., 1.648 mi., brick, $82,458; Kentucky rock asphalt, $74,624.

SEWERAGE SYSTEM—BRIARCLIFF MANOR, N. Y.

Following are lowest bids opened June 21 for constructing (1) sewerage system, (A) Orange Eng. Constr. Co., 106 South Essex Ave., Orange, N. J., (awarded contract); (B) M. Averill, 196 Woodside Ave., Newark, N. J.; (C) M. Delfino, 9 North Highland Ave., Ossining; (2) sewage disposal works, (A) Broadhurst Co., Court St., Hackensack, N. J., (awarded contract); (B) Linde & Griffith Co., foot 4th Ave., Newark; (C) Francis Donaldson, 37 West 39th St., New York City. The unit bids were as follows:

(1)	A	B	C
2,640 lin.ft. 8-in. vitrified tile, 0-6	$1.29	$1.90	$1.35
1,460 lin.ft. 8-in. vitrified tile, 6-8	1.55	2.15	1.55
4,300 lin.ft. 10-in. vitrified tile, 0-6	1.44	2.10	1.55
3,600 lin.ft. 10-in. vitrified tile, 6-8	1.70	2.35	1.75
175 lin.ft. 10-in. c.i. pipe	6.00	4.00	2.60
60 manholes, 0-8	65.00	75.00	98.00
70 M. ft. b.m. sheeting	80.00	70.00	60.00
3,000 cu.yd. rock	4.00	2.00	5.00
Extended totals (25 items)	$43,224	$45,424	$47,656

(2)	A	B	C
Settling tank (lump sum)	$26,980.00	$30,500.00	$31,000.00
145 lin.ft. 12-in. c.i. pipe	5.70	2.50	3.20
36 cutting ex. piles	10.00	15.00	6.00
6,400 ft. new piles	.58	.65	.75
Extended totals	$29,097	$36,663	$37,210

Streets and Roads (Continued)

Putnam Co., Sect. "N" Lima-Ottawa Rd., 2.718 mi., Kentucky rock asphalt, $72,-019; rein.-con., $72,920.

Putnam Co., Cect. "A" Ottawa-Defiance Rd., 2.602 mi., Kentucky rock asphalt, $76,-515; rein.-con., $71,190.

Putnam Co., Sect. "H" Ottawa-Defiance Rd., 0.556 mi., Kentucky rock asphalt, $14,-864; rein.-con., $14,388.

Seneca Co., Sect. "Attica" Columbus-Sandusky Rd., 0.35 mi., brick, $30,350.

Shelby Co., Sect. "Anna" Sidney-Wapakoneta Rd., 0.516 mi., rein.-con., $18,615.

Shelby Co., Sect. "Botkins" Sidney-Wapakoneta Rd., 0.507 mi., rein.-con., $15,-479.

Tuscarawas Co., Sect. "P-2" Newcomerstown-Uhrichsville Rd., 1.238 mi., monolithic brick, $53,585; rein.-con., $44,965; Kentucky rock asphalt, $45,219.

Wayne Co., Sect. "O" Wooster-Mansfield Rd., 3.555 mi., brick, $140,097.

Wood Co., Sect. "B" Perrysburg-Fostoria Rd., 1.549 mi., bituminous macadam, asphalt or tar, $33,700.

Wyandot Co., Sect. "I-1" Bucyrus-Upper Sandusky Rd., 0.954 mi., brick, $40,431; bituminous concrete, $34,988.

Williams Co., Sect. "G" Stryker-Evansport Rd., 1.187 mi., grading and constructing bridges and culverts, $16,190.

Williams Co., Sect. "D" Stryker-Evansport Rd., 2.58 mi., grading and constructing bridges and culverts, $6,601. L. C. Herrick, dir. highways.

O., Akron—Aug. 2, by M. P. Tucker, dir. Pub. Serv., grading and paving 5,255 ft. Rosyln Ave., 24 ft., 9,050 lin.ft. stone curb, 47,650 sq.ft. cement sidewalk, 4,700 cu.yd. earth excav., 14,600 sq.yd. vitr. brick, concrete or asphalt on concrete, $82,000; 3,043 ft. Orlando Ave., 24 ft., 5,700 lin.ft. stone curb, 28,600 sq.ft. cement sidewalk, 2,700 cu.yd. earth excav., 8,400 sq.yd. vitr. brick concrete or asphalt on concrete, $49,-000, 800 ft. Carroll St., 24 ft., 1,750 lin.ft. stone curb, 10,500 lin.ft. cement sidewalk, 3,000 cu.yd. earth excav., 2,800 sq.yd. vitr. brick or asphalt on concrete, $17,000, 900 ft. Commins St., 24 ft., 1,900 lin.ft. stone curb, 1,300 cu.yd. earth excav., 3,510 sq. yd. vitr. brick, concrete or asphalt on concrete, $18,000; grading, cindering and laying sidewalks on 3,800 ft. Dayton St., 6 ft. walk, 45,500 sq.ft. cement sidewalk, 6,500 cu.yd. earth excav. and 2,250 cu.yd. cinders, $16,000, 11,300 ft. Crestview, Greenwood, Orrin, Bye, Peckham and Stadelman Sts., 5 ft. walks, 99,000 sq.ft. cement sidewalk, 10,000 cu.yd. earth excav., 4,900 cu. yd. cinders, 3,870 ft. 12-18 in. vitr. sewers, $47,000. E. A. Kemmler, Delaware Bldg., engr.

O., Centerburg—Aug. 1, grading, curbing and paving Preston, Church, Landrum and Valley Sts., 9,500 sq.yd. brick. $50,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Cleveland—July 26, by Cuyahoga Co., paving Bean Rd. 2 from Ridge to State Rds., concrete, $54,024; Bassett Rd. from Lake Rd. to tracks of New York, Chicago & St. Louis R.R., 8,450 lin.ft. 4 in. gutter, 4,000 cu.yd. earth excav. and 10,534 sq.yd. concrete, $43,777. F. J. Lander, Court House, engr.

O., Columbus—July 25, by W. H. Duffy, dir. Pub. Serv., grading, curbing and paving Clinton St. from 4th St., to Cleveland, Cincinnati, Chicago & St. Louis R. R. tracks, 332 ft. long, 24 ft. wide, brick, $5,695, asphalt, $5,212, 8th Ave. from Summit St. to alley east of Summit St., 145 ft. long, 20 ft. wide, brick, $2,268, asphalt, $2,175, Frebis Ave. from the west line of Schmitt's addition to Parsons Ave., 384 ft. long, 24 ft. wide, brick, $5,979, asphalt, $5,-421, Tompkins St. from 4th St. to Cleveland, Cincinnati, Chicago & St. Louis R. R. tracks, 303 ft. long, 20 ft. wide, brick, $4,439, asphalt $4,090, Capital St. from West Park St. to Princeton Ave., 300 ft. long, 20 ft. wide, brick, $2,525, asphalt, $1,780; grading and paving Alley west of 4th St., from Oakland to Wyandotte Ave., 366 ft. long, 16 ft. wide, brick, $1,838, concrete, $1,466, Alley north of 5th Ave., from alley west of Neil Ave. to Pennsylvania Ave., 306 ft. long, 16 ft. wide, brick, $1,884, concrete, $1,487, Alley west of 4th St. from New Indianola Sub-division to 9th Ave., 340 ft. long, 16 ft. wide, brick, $2,939, concrete, $2,024, Alley west of Lexington Ave., from Buckingham St. to Hoover Ave., 450 ft. long, 16 ft. wide, brick, $3,120, concrete, $2,505, Alley north of Madison Ave. from alley wst of Auburn St. to Auburn St., 208 ft. long, 20 ft. wide, brick, $929, concrete, $779, 11th Ave. from High to 4th Sts., 2,155 ft. long, 36 ft. wide, resurfacing present surface, asphalt, $23,335; Fair Ave. from Champion Ave. to Franklin Park West, 2,529 ft. long, 30 ft. wide, resurfacing the present roadway, asphalt, $27,737; Champion Ave. from Main St. to Livingstton Ave., 2590 ftt. long, 28 ft. wide, making necessary water and sewer connections and paving with asphalt over brick surface, $29,201. R. H. Simpson, city engr.

O., Dayton—July 24, by G. M. Baker, dir. Pub. Serv., paving 1,500 ft. Garland Ave. from 3rd to Woodley Sts., 30 ft. wide, 5,000 sq.yd. rein.-con., $13,991; 1,800 ft. Louie St. from Norwood to Washington Sts., 30 ft. wide, 6,000 sq.yd. brick, $31,466. I. E. Houk, city engr.

O., Fredericktown—Aug. 10, grading, curbing and paving Main, Mansfield and Railroad Sts., 1,100 sq.yd. brick. $26,000. Jennings-Lawrence Co., Hartman Bldg., Columbus, engrs.

O., Upper Arlington—July 26, grading, curbing, laying water mains, sewers and asphalt paving 3,000 ft. Tremont Rd. from Tewksbury Rd. to Lane Ave., 26 and 36 ft., $43,000; 2,100 ft. Yorkshire Rd. from North Union to Tremont Rds., 20 ft., $24,000; 800 ft. Fairfax Rd. from Tewksbury Rd. to Arlington Ave., 20 ft., $5,000; 1,700 ft. Andover Rd. from 5th Ave. to Tremont Rd., 20 ft., $13,000. Jennings-Lawrence Co., Hartmann Bldg., Columbus, engrs.

O. Wadsworth—Aug. 15, by Village Council, improving North Lyman St. to Akron-Wadsworth Rd., bituminous macadam; Highland Ave. from Prospect St. northerly 1 block incl. intersection, vitr. brick. R. W. Simester, village clk.; adv. this issue.

Ind., Crown Point—July 31, by Comrs. Lake Co., grading, draining and graveling 4.5 mi. G. M. Foland Rd., 18 ft., $53,800; 7 mi. J. E. Fidler Rd., 24 ft., $120,125. County Surv., Crown Point, engr.

Ind., Goshen—July 31, by Comrs. Elkhart Co., grading, draining and graveling 15,883 ft. Co. Unit Rd. 11, 18 ft., $30,650; 22,200 ft. Co. Unit Rd. 18, 16 ft., $98,492; 31,700 ft. Co. Unit Rd. 37, 16 ft., $35,805; 15,790 ft. Twp. "Q," 32 ft., $71,456; grading and concrete paving 16,397 ft. Co. Unit Rd. 13, 16 ft., 24,715 sq.yd. concrete, $76,126; 13,000 ft. Co. Unit Rd. 14, 16 ft., 23,111 sq. yd. concrete, $59,005; 25,110 ft. Co. Unit Rd. 31, 18 ft., 44,640 sq.yd. concrete, $118,120.

Michigan—July 27, by State Hy. Dept., Lansing, grading and surfacing 6.46 mi. Assessment Dist. Rd. 209, 16 ft., 14,455 cu. yd. earth excav., 60,567 sq.yd. waterbound macadam or stone-gravel. State Hy. Dept., Lansing, engrs.

Michigan—July 27, by State Hy. Dept., Lansing, grading and surfacing 2.064 mi. Assessment Dist. Rd. 235, Saginaw Co., 6,901 cu.yd. excav., 19,370 sq.yd. waterbound macadam or stone gravel.

Michigan—July 28, by State Hy. Dept., Lansing, grading and surfacing 2.564 mi. State Trunk Line Rd. 13-16, Kent Co., 15,-491 cu.yd. excav., 27,071 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Ill., Blue Island—July 25, by Bd. Local Impvts. paving various streets. P. T. Klenk, pres.; adv. this issue.

Wis., Walworth—July 28, by J. G. Blaine, village clk., 8,700 sq.yd. rein.-con., 3,300 lin.ft. combined concrete curb and gutter, 4,400 cu.yd. earth excav. $25,000.

Ia., Waukon—July 24 by J. D. Cowan, city clk., paving 40,350 sq.yd. various streets, 28,350 lin.ft. curb and gutter. $140,000. M. Tschirgi & Sons, 712 Amer. Trust Bldg., Cedar Rapids, engrs.

Minn., Winona—July 31, by F. S. Bell, secy. Bd. Park Comrs., 8,533 sq.yd. vitr. brick block and 7,365 lin.ft. 6 in. concrete curb, $25,000. E. E. Chadwick, city engr.

N. D., Fargo—July 28, by W. R. Tucker, aud. Cass Co., grading and graveling 18 mi road east and west through Casselton, Federal Aid Project 14,493,696 cu.yd. excav., 34,053 cu.yd. gravel. $55,000.

Missouri—July 26, by State Hy. Dept. at div. office Bloomfield, 4.256 mi. road from Cairo to Poplar Bluff, 24 ft., Federal Aid Project 179, Stoddard Co., 22,349 lin.ft. grading, 39,732 sq.yd. of 16 ft. gravel surfacing. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—July 26, by State Hy. Dept. at div. office Bloomfield, 9.943 mi. road from Gray Ridge westward, Federal Aid Project 118, Sect. B, 24 ft., Stoddard Co., 24,670 cu.yd. earth excav., 4,798 cu.yd. borrow, 174.4 cu.yd. concrete masonry, 22,546 sq.yd. of 16 ft. gravel surfacing, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—July 26, by State Hy. Dept. at div. office Bloomfield, 4.256 mi. road from Jackson Co. line to Blackburn, 24 ft. State Aid Project 20.164, Lafayette Co., 38,042 cu.yd. earth excav., 3,108 cu.yd. borrow, 288.7 cu.yd. concrete masonry, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Missouri—July 27, by State Hy. Dept. at div. office Shelbyville, 4,529 mi. road from Shelbyville northward and southward, State Aid Project 20.129, Shelby Co., 24,108 cu.yd. earth excav., 14,730 cu.yd. borrow, 282.3 cu.yd. concrete masonry, 18,-202 lb. reinforcing steel, etc. B. H. Piepmeier, Jefferson City, state highway engr.

Tex., Austin—July 28, by G. S. Matthews, judge Travis Co., surfacing 9.15 mi. State Highway 20 from Manor to Bastrop Co. line, 16 ft., 81,110 sq.ft. 1½ in. bituminous topping. $65,000 incl. 10% for engineering and contingencies. O. Leonard, co. engr.

Tex., Eldorado—July 26, by C. A. Womack, judge Schleicher Co., surfacing 11.43 mi. State Highway 4, Federal Aid Project 135, 16 ft., 86,890 gal. asphalt, 3,934 cu.yd. cover material. $48,000. G. Gilchrest, San Angelo, engr. in charge. Noted June 22.

Tex., Georgetown—Aug. 1, by F. D. Love, judge Williamson Co., grading, surfacing, etc., 15.57 mi. State Highway 2-C from here to north line of Precinct 1. 16 ft., 4,868 cu.yd. borrow, 55,557 cu.yd. roadway excav., 137,026 sq.yd. ¾ in. bituminous macadam, 995.5 cu.yd. concrete, 95,055 lb. reinforcing, 4,805 cu.yd. shale and 20,462 cu.yd. gravel, $125,555; 11.35 mi. State Highway 43-A, 18 ft., 28,301 cu.yd. borrow, 71,557 cu.yd. roadway excav., 985 sq. yd. concrete, 92,172 lb. reinforcing, 40,550 cu.yd. gravel, $104,880. R. A. Nichols, co. engr.

Tex., Lufkin—July 25, by J. F. Robinson, judge Angelina Co., grading gravel surfacing, etc., 5.47 mi. State Highway 35 from point 5.1 mi. south of here toward Polk Co line, 18.2 acres clearing, 9,283 cu.yd. borrow, 21,947 cu.yd. roadway excav., 353 cu.yd. concrete, 29,717 lb. reinforcing, (14,278 cu.yd. gravel furnished by county). $77,079. G. R. Abney, co. engr.

Tex., Lufkin—July 26, by J. F. Robinson, judge Angelina Co., grading, gravel surfacing, etc., 5.09 mi. State Highway 35 from Lufkin south, Sect. B, Federal Aid Project 271, 16 ft., 26,285 cu.yd. borrow, 23,699 cu. yd. roadway excav., 913.7 cu.yd. concrete, 47,748 sq.yd. 1½ in. bituminous macadam, 83,001 lb. reinforcing, (13,252 cu.yd. gravel furnished by county), $133,498; 4.19 mi. State Highway 35 from Polk Co. north, 16 ft., 20,285 cu.yd. borrow, 19,209 cu.yd. roadway excav., 475 cu.yd. concrete (10,920 cu. yd. gravel furnished by county), $68,872. G. R. Abney, co. engr.

Tex., Sonoro—July 27, by L. W. Elliott, judge Sutton Co., grading, gravel surfacing and bridging 9.66 mi. State Highway 4, Federal Aid Project 272, 18 ft., 1,111.5 cu. yd. concrete, 22,129 cu.yd. earth and 3,520 cu.yd. rock excav., 71,338 lb. reinforcing, (30,774 cu.yd. gravel furnished by county). $114,009. J. W. Alger, co. engr. Noted Feb. 2.

Nevada—State Hy. Dept., Carson City, receiving bids grading and gravel surfacing 7.5 mi. road between 6.9 mi. Southeast Canon and 3.6 mi. Southeast Rose Well, Nye Co. G. W. Borden, state highway engr.

California—August 7, by State Hy. Comn., paving between Quail Lake and north boundary, Los Angeles Co., 3.4 mi., to be paved with Portland cement concrete, 6.8 mi. asphaltic concrete surface, Portland cement shoulders, 0.2 mi. widened with Portland cement shoulder; grading and paving with Portland cement 2 mi. road through Banning, Riverside Co. A. B. Fletcher, Forum Bldg., Sacramento, engr.

Cal., San Rafael—August 8, by supervs. Marin Co., paving portion San Rafael and Olema Rd. through Fairfax, and portion Fairfax and Bolinas Rd. in Dist 2, 1,512 cu.yd. grading, 89,968 sq.ft. 4 in. and 111,-258 sq.ft. 3 in. asphalt pavement, 190,326 sq.ft. 5 in. hydraulic concrete pavement, etc. G. Dodge, co. surv. Noted March 23.

Cal., Woodland—August 2, by supervs. Yolo Co., Prefix 8, Sect. A. (extension of Main St.) 1,650 cu.yd. earthwork, 25 cu.yd. portland cement, Class B (headwalls), 84,-900 sq.ft. Class A, portland cement concrete pavement. Noted June 15.

Quebec — Aug. 1, by I. L. Boulanger, deputy minister of highways, Quebec, graveling 16 mi. Montreal-Sherbrooke Highway, Granby Twp., St. Paul Parish, also 38,252 ft. Montreal-Toronto Highway, St. Zotique and St. Claire D'Arrise Parishes, both 16 ft. wide. M. Necktar, c/o Dept. Rds., Quebec, engr.

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids July 11, improving (1) 4.15 mi. Highway 8115 Arcade-Farmersville, Part 2, Cattaraugus Co., (2) 8.82 mi. Highway 8116 Greene-Coventry, Chenango Co., (3) 7.150 mi. Highway 8117 Deposit-Rock Rift, Part 2, Delaware Co., (4) 7.7 mi. Highways 1621 and 8118 Bloomville-Hobart, Parts 1 and 2, Delaware Co., (5) 1.6 mi. Highways 5675 and 8119 Cazenovia Village, Parts 1 and 2,

Streets and Roads (Continued)

Madison Co., (6) 10.14 mi. Highway 8120 Edwards-Fine, St. Lawrence Co., (7) 0.62 mi. Highway 8123 Greenwich Village: Washington Pl. and Salem St., Washington Co., (8) 4.68 mi. Highway 8121 Pike-Gainesville, Wyoming Co., (9) 2.92 mi. Highway 8122 Penn Yan-Potter, Part 2, Yates Co., repairing (10) 1.27 mi. Repair Contr. 1346 Highway 5121-North Norwich-Sherburne, Chenango Co., from Hendrickson-McCabe Constr. Co., Inc., Syracuse, (1) $134,896 (8) $148,615; F. J. Foote, Nunda, (1) $135,841 (8) $150,143; S. Rosoff, Jr., Warsaw, (1) $138,068; J. F. Paddelford, North Main St., Sherburne, (2) $347,865 (10) $31,450; Peconco Eng. & Contg. Corp., 1170 Bway., New York, (2) $349,995 (5) $362,813; N. E. Young, Union, (3) $263,990; F. G. Fowler Constr. Co., 77 Carpenter Ave., Mt. Kisco, (3) $269,737; Hogeboom & Campfield, Inc., Kingston, (4) $187,585; Schunnemunk Constr. Co., Highland Mills, (4) $189,595; O. P. Williams, Delhi, (4) $194,897; G. W. Chambers, 40 Tremont St., Rochester, (5) $52,989; Mondo Constr. Co., Inc., C. B. Bldg., Syracuse, (5) $56,598; Smith Bros. Constr. Co., Cleveland Bldg., Watertown, (6) $353,405; W. G. Fox, Saratoga Springs, (7) $35,918; E. D. Fote, Olean, (8) $155,-664; Greenfield Constr. Co., 89 Main St., Hornell, (9) $85,422; Gould & Kranz, Brooklyn, (9) $93,346; B. Shay, Dundee, (9) $93,354; V. Vrooman, Gloversville, (10) $31,951. Noted June 29.

N. Y., Long Island City—M. E. Connolly. pres, Queens Boro, Queens Subway Bldg., opened bids July 10, grading and paving Bell Ave., also setting curb on easterly side of Wainscott (Warburton) Ave., etc., from R. A. Hess, Inc., Corona, $45,701; Kennedy & Smith, Inc., 93 Amity St., Flushing, $50,-880; Peace Bros., Inc., 20 Main St., Flushing, $53,005. Noted July 6.

Pa., Bradford—E. C. Charlton. city clk., opened bids July 3, paving (1) Mill St., (2) York St., (3) Hobson Pl., (4) Pearl St., (5) sewers in Holly and Willis Aves., from Applegate & Son, 3 East Ave., (1) $22,855, (2) $7,538, (3) $8,811, (5) $3,152; F. D. Ross, 74 High St., (1) $20,133, (2) $6,765, (3) $7,694, (4) $4,501, (5) $3,511. Noted June 29.

Pa., Clairton—Opened bids July 10, paving (1) 6th Ave. concrete (2) State St., brick or concrete (a) sewers in same (b) paving and sewers combined (3) grading 4th Ave. (4) Chambers St. (5) Sycamore St. from J. W. Butler, McKeesport (1) $14,-695 (35 days) (2) $24,333 (35 days) (a) $1,726 (b) $26,059 (3) $2,560 (4) $1,600 (5) $1,280; Bucannelly Constr. Co., West Elizabeth, (1) $14,064 (2) $27,220 (a) $1,544 (b) $28,763; Bowman Bros., McKeesport, (1) $15,733 (3) $2,400 (4) $2,000 (5) $1,600; A. Ancarana, Port Vue, (2) $28,938 (2b) $30,883 (3) $2,880 (4) $1,800 (5) $1,440. F. H. Crosier, McKeesport, (2a) $1,712. Noted July 6.

Pa., Phila.—F. H. Caven, dir. pub. wks. opened bids July 11, paving (1) 51st St. from Viola St. to Leidy Ave., Tower St. from Roxborough Ave. to Jamestown St., Marshall St. from Brown to Polar Sts., asphalt, (2) Chester Ave. from 65th to 66th Sts., Percy St. from Emily to Snyder Sts., Madison St. from Cedar to Aramingo Sts., asphalt, (3) Hutchinson St. from Ruscomb St. to Lundley Ave., Indian St. from Broad to 15th Sts., Franklin St. from Wyoming Ave. to Louden St., asphalt, (4) Snyder Ave. from 23rd to 24th Sts. and Brewster Ave. from 83rd to 86th Sts., bituminous. (5) Delaware Ave. from Columbia Ave. to Dyott St., (6) 58th St. Woodland Ave. to Baltimore & Ohio R.R., redressed granite block, from Barber Asphalt Paving Co., Land Title Bldg., (1) $25,897, (2) $25,112, (3) $26,973, (4) $29,474; Eastern Paving Co., Colonial Trust Bldg., (1) $27,653, (2) $27,534, (3) $26,168, (4) $29,563; Union Paving Co., 34th and Spruce Sts., (2) $27,-470, (3) $27,174, (4) $27,484, (5) $492,-'435; Fish-Rutherford Co., Real Estate Trust Bldg., (5) $503,653, (6) $3,652; J. Lombardi, Lincoln Bldg., (5) $499,672; A. A. Pastori, 5903 Woodland Ave., (6) $3,530. Noted July 6.

D. C., Wash.—Dist. Comrs., 509 Dist Bldg., opened bids July 12 paving various streets and avenues, sheet asphalt from Cranford Paving Co., 2620 E St., N. W., Item 1 (a) sheet asphalt $3.21, (b) $3.11; Item 2 $3.21; Corson & Gruman, Wash., Item 1 (b) $3.23, Item 2 $3.28. Noted July 6.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids July 14, grading, bridging and paving roads with (a) brick, (b) asphaltic macadam, oil, (c) tar macadam, (d) asphaltic macadam, lake, (e) bituminous concrete, (f) Kentucky rock asphalt, (g) rein.-con., (h) bituminous concrete, oil, (i) bituminous concrete, lake, (j) bituminous macadam, asphalt, (k) bituminous macadam, tar, (l) bituminous macadam, (a-1-b) (m) state to furnish brick, (n) plain concrete, (o) asphaltic concrete, oil, (p) asphaltic concrete, lake, (q) asphaltic macadam, oil or lake, (r) asphaltic macadam, (s) monolithic brick, (t) tar macadam, oil or lake in following counties: Clinton Co., Sect. "R" Cincinnati-Zanesville Rd., 7,545 mi., from H. N. Snyder, Columbus, (a) $309,221; Brewer & Brewer Sons, Chillicothe, (a) $310,953. Columbiana Co., Sect. "A-1" Lisbon-Canton Southern Rd., 3.922 mi., from E. J. Kane, 461 West Indianola Ave., Youngstown, (a) $156,843, (b) $118,731, (c) $118,731; Allison-Harris Co., East Liverpool, (a) $159,336; Jones Constr. Co., Salem, (a) $164,025, (b) $125,-594, (c) $125,594; Ready Bros., Warren, (c) $122,713. Hardin Co., Sect. "L" Lima-Kenton Rd., 2.966 mi., from Losey Rd. Constr. Co., Kenton, (b) $54,632, (c) $55,-572, (d) $58,704, (e) $74,801, (f) $69,809; Walker Sousley, Ada, (b) $60,980, (c) $60,955; Thompson-Oroark, Toledo, (b) $60,376, (c) $60,376; C. V. Rector, Lima, (e) $73,755, (f) $71,515; J. W. Carey, Ada, (f) $71,705. Henry Co., Sect. "Napoleon" Wauseon-Napoleon Rd., 0.5295 mi., from Zeller Bros. & McDonald, Maumee, (g) $13,059. Henry Co., Sect. "B" Ottawa-Napoleon Rd., 4.04 mi., from Creager Bros., Liberty Center, (b) $73,960, (c) $74,958, (f) $88,922; C. L. Straw, Paulding, (b) $76,078, (c) $76,078, (f) $95,503; R. Stone Constr. Co., Lima, (b) $70,535, (d) $70,535, (f) $92,456; A. Langenderfer, Toledo, (c) $77,301. Huron Co., Sect. "E" Barberton-Greenwich Rd., 3.124 mi., from Rice & Rice, Shelby, (g) $99,616. Huron Co., Sect. "Greenwich" Barberton-Greenwich Rd., 0.161 mi., from Rice & Rice, Shelby, (g) $3,961. Huron Co., Sect. "S" Norwalk-Mansfield Rd., 2,504 mi., from Rice & Rice, Shelby, (g) $58,668. Lorain Co., Sect. "D and E" Cleveland-Elyria Rd., 6.23 mi., from Ohio Eng. Co., Lorain, (a) $191,283, (h) $142,615, (i) $157,254; M. A. Ryan, 870 Eddy Rd., Cleveland, (a) $187,852; Elyria Constr. Co., 220 Elyria Block, Elyria, (a) $193,256; Highway Constr. Co., 903 Lorain Co. Blk. Bldg, Elyria, (h) $145,-798, (i) $151,654; Smith Constr. Co., Youngstown, (h) $153,514. Marion Co., Sect. "H" Marion-Galion Rd., 3.077 mi., from Malloy & Seckel, Marion, (j) $97,624, (k) $93,947; F. F. Walton Co., Upper Sandusky, (j) $101,741, (k) $97,756; Marifield & Uncapher, Marion, (j) $103,601, (k) $97,-599. Marion Co., Sect. "K" Marion-Galion Rd., 3.481 mi., from F. F. Walton Co., Upper Sandusky, (j) $91,007, (l) $94,973; Marifield & Uncapher, Marion, (j) $91,390, (l) $98,143; Brady & O'Connell, Marion, (j) $94,612; P. Drake & Sons, Marion, (l) $97,357. Morrow Co., Sect. "L" Mt. Gilead-Mansfield Rd., 6.322 mi., from J. McNamara, Jr., Delaware, (f) $195,753, (g) $185,585; P. Drake & Sons, Marion, (f) $196,695; Smith Constr. Co., Youngstown, (e) $194,511, (g) $198,243; C. W. Conley, Columbus, (g) $194,255. Noble Co., Sect. "O" Cambridge-Caldwell Rd., 4.716 mi., from Wilson-Miller Co., Barnesville, (a) $170,402, (m) $134,950; S. A. Palmer, Marietta, (a) $171,043; J. P. Mumaw, Cambridge, (m) $133,199; G. W. McElfresh, Caldwell, (m) $133,898. Noble Co., Sect. "J" Caldwell-Marietta Rd., 3.257 mi., from Gaty Constr. Co., Central Natl. Bank Bldg., Columbus, (n) $146,948; Cavanaugh-DeNiro Co., Youngstown, (n) $149,361; G. W. McElfresh, Caldwell, (n) $151,824. Ottawa Co., Sect. "L" Toledo-Elmore Rd. 0.992 mi., from J. H. Murphy Constr. Co., Burgoon, (a) $38,860, (g) $32,179, (i) $36,841, (o) $36,841; H. G. Witte & Son, Elmore, (a) $39,700, (g) $33,697, (i) $38,870. Thompson-O'Roark Co., Toledo, (a) $40,380, (o) $36,813; Smith Constr. Co., Youngstown, (o) $37,922; Modern Constr. Co., Fremont, (i) $39,389; LaBoiteaux & Hayes, Toledo, (g) $33,926. Sandusky Co., Sect. "A" Toledo-Elmore Rd., 2.278 mi., from J. H. Murphy Sons, Burgoon, (a) $91,563, (g) $78,355, (o) $87,854, (p) $87,854; H. G. Witte & Son, Elmore, (a) $96,558, (g) $76,-904, (p) $92,161; F. F. Walton, Upper Sandusky, (a) $98,298; Thompson-O'Roark, Toledo, (o) $88,018; Modern Constr. Co., Fremont, (p) $91,086; LaBoiteaux & Hayes, Toledo, (g) $76,787. Pickaway Co., Sect. "New Holland" Cincinnati-Zanesville Rd., 0.923 mi., from Reichelfelder Co., Circleville, (a) $30,297; M. M. Girton, Washington C. H., (a) $32,183, (g) $25,-298, (q) $21,049; Anderson & Brown, Chillicothe, (a) $32,435. Pickaway Co., Sect. 'F-2" Columbus-Washington Rd., 0.8 mi., from Curry & Hayes, Eaton, (a) $34,585, (b) $$22,432, (c) $22,432; Reichelfelder Co., Circleville, (a) $32,990; H. N. Snyder, Columbus, (a) $34,410. Pickaway Co., Sect. "F-2" Columbus-Washington Rd., 0.19 mi., from Curry & Hayes, Eaton, (a) $45,-431, (c) $41,277, (r) $41,277; Reichelfelder Co., Circleville, (a) $42,325; H. N. Snyder, Columbus, (a) $46,331. Portage Co., Sect. "D" Aurora-Warren Rd., 3.593 mi., from A. W. Morette, 23 East Exchange St., Akron, (g) $105,793; Seiple Wolfe Co., Youngstown, (g) $106,798; Ready Bros., Warren, (a) $107,572; Mango & Colluci, Youngstown, (a) $107,922, (m) $83,698. Scioto Co., Sect. "R-2-A" Ohio River Rd., 3.139 mi., from Harper-Ruel Co., Portsmouth, (s) $125,083; G. Miller, Brooksville, Ky., (t) $99,210. Scioto Co., Sect. "R-2-B" Ohio River Rd., 2.815 mi., from Harper-Ruel Co., Portsmouth, (s) $99,211; Mills & Conley, Visalia, (t) $81,864. Trumbull Co., Sect. "C" Painesville-Warren Rd., 2.62 mi., from Mahoning Constr. Co., Warren, (c) $79,005, (g) $85,534, (r) $79,005; T. Vesy, Youngstown, (r) $82,423; Taylor & Bauer, Farmdale, (c) $80,549. Trumbull Co., Sect. "Newton Falls" Ravenna-Warren Rd., 0.756 mi., from J. De Jute, 218 Williams St., Niles, (a) $30,975. Mahoning Co., Sect. "V" Canfield-Poland Rd., 2.21 mi., from Brown & Allen, Ellsworth, (j) $23,342; E. J. Kane, Youngstown, (j) $23,598; P. H. Manly 59 Warren Ave., Youngstown, (j) $23,598, (k) $23,213; Smith Constr. Co., Youngstown, (k) $22,304; Gray Bros., Youngstown, (k) $22,957. Wayne Co., Sect. "O" Wooster-Mansfield Rd., grading and building culverts, 3,355 mi., from Stein & Geisel, Niles, $46,892; J. C. McCann, 191 Belvidere Ave., Columbus, $47,994; Henderson Bros., Chagrin Falls, $49,120. Noted July 6.

O., Cleveland—Cuyahoga Co. paving Kinsman Rd., 20,600 lin.ft. 5 x 20 in. stone curb, 21,000 cu.yd. earth excav., 38,700 sq.yd. vitr. brick or asphalt, 9,050 sq.yd. concrete base, from A. M. Pejsa Paving Co., Euclid Blvd., Cleveland Heights, $220,117; H. G. Herring, Pavers' Exch., Society for Savings Bldg., $221,431.

O., Euclid—Opened bids July 3, (a) concrete, (b) bluestone or (c) sandstone sidewalks on (1) East 107th St., Arbor and Bliss Rds., (2) Cut Rd., Pond, Erieview and Brewer Aves., (3) Donald Ave., (4) Fuller Ave., (5) Goller Rd., East 209th, 210th, 212th and North Vine Sts., from V. Q. Galier, Builders Exch., Cleveland, (1a) $46,661; Ohio Quarries Co., Citizens Bldg., Cleveland, (1c) $56,463, (2c) $47,-283; F. B. Stein, Euclid, (2a) $44,852, (3a) $2,770, (4a) $7,875, (5a) $20,939; Green Rd. Stone & Supply Co., Euclid, (4b) $8,125, (5b) $20,692. Noted June 22.

Ind., Indianapolis—Comrs Marion Co. opened bids paving 2.55 mi. Lloyd Durbin Rd., 26,928 sq.yd. concrete, from Phitzenmayer Constr. Co., Walnut St., Terre Haute, $70,102; W. J. Nees, Indianapolis, $76,651; L. C. McNamara Constr. Co., 946 West New York St., $81,877. Noted June 15.

Wis., Juneau—Dodge Co. State Road and Bridge Com., cement concrete paving 1.51 mi. Beaver-Dam-South Beaver Dam Rd., (a) if county furnishes cement, (b) if contractor furnishes cement, from Schreiber & Waterworth, Randolph, 10 acres clearing and grubbing $25, 7,178 cu.yd. earth excav. $0.47, 8,511 sq.yd. concrete surfacing $1.30, etc., total (a) $19,224, (b) $24,821; 4.54 mi. Juneau-Watertown Rd., from M. Martin, Berlin, 15,000 cu.yd. unclassified excav. $0.75, 900 cu.yd. borrow $0.75, 48,200 sq.yd. concrete surfacing $1.35, etc., totals (a) $83,462, (b) $121,694.

Minn., Fairmont—Opened bids July 6, concrete paving about 10,600 sq.yd. various streets, from F. D. Gould, Fairmont, $23,-383, Wessel Bros., 721 Guardian Life Bldg., St. Paul, $26,662.

Wash., Seattle—Opened bids July 1, paving Yale Ave., et al., from R. G. Stevenson, 1327 34th St., $62,191; V. Ramaglia, 4415 Corliss Ave., $63,345; Jahn & Bressi, Thompson Bldg., $63,594.

CONTRACTS AWARDED

Maine—State Hy. Dept., Augusta, 3.443 mi. State Highway "O," Project 35, in Canton, to W. H. Doran, Mercer, $32,065; 0.32 mi. State Highway "K," Project 47, in Island Falls, and 3.14 mi. State Highway "K," Project 51, in Easton, to M. Hughes, 105 3rd St., Bangor, $8,237 and $47,229 respectively; 4.023 mi. State Highway "O," Project 32, in Canton, and 0.85 mi. State Highway "F," in Wilton, to J. H. Kerr, Rumford, $46,101, and $17,539 respectively; 2.188 mi. State Highway "K," Project 43, in Orono, to Portland Constr. Co., 21 Portland St., Portland, $55,992; 1.76 mi. State Highway "K," Project 53, in Orono, to Hassam Paving Co., 17 Federal St., Worcester, Mass., $50,717; 4.66 mi. State Highway "E," Project 12, in New Gloucester, to J. McCormick, 319 Taunton Ave., East Providence, R. I., $191,120. Noted July 13.

New Hampshire—State Hy. Dept., Concord, paving 0.8 mi. highway in Sunapee, 18 ft., bituminous macadam on stone, also two 24 ft. span bridges, to Colburn Constr. Co., Concord, $32,679.

GRADE SEPARATION—MILWAUKEE, WIS.

Following are lowest bids were opened by Comr. Pub. Wks., June 21, for grade separation work (A) R. H. Gumz, 831 13th Ave., (awarded contract); (B) Kroening Constr. Co., 39th Ave. and Mitchell St.; (C) M. E. White Co., 133 West Washington St., Chicago. The unit bids were as follows:

	A	B	C
39,888 cu.yd. excavation above subgrade of pavement	$0.65	$0.83	$0.66
4,200 cu.yd. excavation below subgrade	1.75	1.50	2.00
1,618 cu.yd. reinforced-concrete retaining wall	14.00	17.80	19.25
3,728 cu.yd. backfill around retaining wall and above reinforced-concrete arch	.30	1.00	.30
1,554 lin.ft. removing and relaying 16 in. c.i. water main	5.00	3.50	9.25
325 lin.ft. removing and relaying 4, 6, 8 in. c.i. mains	3.50	2.50	5.00
1,100 cu.yd. reinforced concrete arch above 84 in. sewer	18.00	13.06	20.00
5,423 sq.yd. sandstone block pavement on 8 in. concrete base	5.70	5.46	6.95
2,666 lin.ft. concrete curb and gutter	.90	.80	1.10
14,520 sq.ft. concrete sidewalks	.17	.19½	.20
1,075 lin.ft. concrete gutter	.70	.60	1.10
240 lin.ft. reinforced concrete steps	1.80	2.00	1.50
Extended totals	$122,479	$128,252	$150,059

Streets and Roads (Continued)

Massachusetts—State Hy. Dept., Boston, 16,038 ft. State Rd., 18 ft., in Great Barrington, about 32,000 sq.yd. bituminous macadam, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $117,418; 1,225 ft. in Wrentham, about 2,450 sq.yd. bituminous macadam, to L. Luchini & Sons, Milford, $7,716; 10,200 ft. in Lexington, 20,000 sq.yd. bituminous macadam, to J. W. O'Connell, Boston, $43,904; 2,200 ft. in Framingham, 4,400 sq.yd. bituminous macadam, to C. Bianchi & Co., Inc., 200 West Central St., Framingham, $10,037.

Rhode Island—State Bd. Pub. Wks., 3.9 mi. Post Rd. in Charlestown, bituminous concrete, to A. D. Bridges Sons Co., Hazardville, Conn., $114,095.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., recurbing, reflagging and paving, etc., 5th Ave., also repaving Cooper Ave., to Cleveland Trinidad Paving Co., Flushing, $12,045 and $66,414 respectively; paving Liberty Ave., to W. P. McDonal Constr. Co., 17 West 42nd St., New York, $41,610. Noted July 13.

N. Y., New York—Dept. Parks, Municipal Bldg., paving centre roadway of Bronx and Pelham Parkways, etc., to C. D. Beckwith, Inc., 2875 Bway, $27,515. Noted July 13.

N. Y., New York—W. J. Flynn, acting pres. Bronx Boro, grading, setting curbs and laying sidewalks on Harrison Ave., etc., to C. D. Beckwith, 2875 Bway., $26,424. Noted July 6.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., widening and repaving Madison Ave., to J. E. Gaffney, 143rd St. and Harlem River, $52,731; 34th St. (curb to rail), to W. J. Fitzgerald, 547 West 45th St., $19,509. Noted July 13.

N. Y., Niagara Falls—To Read-Coddington Eng. Co., 238 Portage Rd., paving alleys, Contr. 248, $12,404, Contr. 241 $4,993; Contr. 247, $6,140 all foregoing concrete; Contr. 235, $6,627, 3 in. vertical fibre brick. Noted June 29.

N. Y., Rochester—Bd. Contr. & Supply, asphalt paving Navarre Rd. and Rutledge Dr., both bitulithic, to O. Costich Co., 131 Rosewood Terrace, $25,000 and $23,286 respectively, Ave. E, Carthage and Hooker Sts., to J. Petrossi Co., Rochester, $18,453, $9,271 and $8,892 respectively, Raymond St. and sewer in Oneida St., to W. E. Kinney, Rochester, $4,403, and $8,032 respectively, Arnold Park, wood block, to Rochester Foundation Co., Rochester, $25,272; grading, laying sidewalks and sewers in Presque St., to W. Bailey Co., Rochester, $9,400.

New Jersey—State Hy. Dept., Trenton, constructing Route 1, Sect. 14 from Stelton Rd. to Metuchen, 49,855 sq.yd concrete, and Route 1, Sect. 13 from Highland Park to Stelton Rd., 32,811 sq.yd. cement, both Middlesex Co., to S. S. Thompson, Inc., Red Bank, 102.7% of engineers estimate ($335,720) and 104.6% ($291,969) respectively. Noted June 29.

N. J., Belvidere—Warren Co. constructing State Highway Route 9, Sect. 9A, Still Valley to Bloomsburg, to B. E. Tighe Constr. Co., Easton, Pa., 89% of engineer estimate or $127,786. Noted June 22.

N. J., Somerville—Constructing State Highway Route 9, Sect. 0.7 Main St., to J. L. Bachman, Inc., Linden, $76,095. Noted June 29.

Pennsylvania—State Hy. Dept., Harrisburg, Route 338, Winslow Twp. and Sykesville Boro., Jefferson Co., to Mason & Hanger Co., Inc., DuBois, $164,623; Route 262, Green, Grant and Montgomery Twps., Indiana Co., to Booth & Flinn, Ltd., 1942 Forbes St., Pittsburgh, $205,238; Applications 1867 and 1868, Rockdale and Cambridge Twps., Crawford Co., to Penn-Erie Constr. Co., Erie, $46,099; Route 20, Troy and Columbia Twps., Bradford Co., to Juniata Co., 410 Empire Bldg., Phila., $89,950; Route 251, Parker City Boro., Armstrong Co., to Jones Constr. Co., Lisbon Rd., Salem, O., $65,399; Route 221, Elder and East Carroll Twps., Cambria Co. and Route 62, Cambria Twp., Cambria Co., to Lord Constr. Co., Hastings, $224,600 and $74,819 respectively; Route 79, Shenango and Slippery Rock Twps., Lawrence Co., to Woods & Golder Constr. Co., 212 Mechanic St., New Castle, $207,626; Route 365, North Abington and Benton Twps., Lackawanna Co., to W. C. Evans, Ambler, $181,687; Route 234, Irvona Boro., Clearfield Co., to W. B. Hughes, 595 8th St., Clearfield, $54,346; Route 54, Blacklick Twp., Cambria Co., to Booth & Flinn, Ltd., 1942 Forbes St., Pittsburgh, $162,043; Route 20, South Creek Twp., Bradford Co., to H. W. Horst & Co., Horst Bldg., Rock Island, $197,759; Route 228, Young Twp., Indiana Co., and Route 228, White, Center, Blacklick and Young Twps., Jacksonville Boro., Indiana Co., to Torquato Bros. Co., 1317 Midway Ave., Windber, $233,021 and $296,376; Applications 1872 and 1874, Washington Twp., Edinboro Boro., Erie Co., and Applications 1880 and 1875, Leboeuf Twp., Mill Village Boro., Erie Co., to Penn-Erie Constr. Co., Erie, $122,342 and $58,919 respectively. Noted July 6.

Pa., Etna — Repaving and recurbing Bridge St., 5,000 sq.yd. vitr. brick, to M. O'Herron Co., 1st and McKean Sts., Pittsburgh. Engrs. est. $25,000.

Fla., Jasper—Comrs. Hamilton Co. will clear, grade and pave with 6 in. sand clay, 5 mi. Rd. 2 from Genoa to Peoles Corner, by day labor. Former bids rejected. Noted May 25.

Fla., St. Augustine—Bd. Comrs. St. Johns Co., to J. Y. Wilson, Clark Bldg., Jacksonville, paving 16 mi. Tocoi-New Augustine Rd., 8.4 mi. Elkton-Tocoi Rd., 2.4 mi. road from Mill Creek to Julington Creek, 4.5 mi. road connecting Mill Creek and Picolata Rds., 4 mi. Hastings Blvd. extension and road from Hastings to Putnam Co. line towards Federal Point, 6½ mi. from Hastings to Putnam Co. line extending south, 7.7 mi. Spuds Rd. and Horn Rd. north from St. Augustine to Golf Links, 10.4 mi. Anastasia Island Rd., involving 100,167 cu.yd. waterbound macadam at $4.57 per cu.yd. Noted April 20.

Tenn., Cleveland—Paving 25,000 sq.yd. various streets, 20-30 ft., asphalt, to Murry Constr. Co., Halston Bldg., Knoxville, $80,000.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Auglaize Co., Sect. "H" Lima-Wapakoneta Rd., 6.558 mi., brick, to Lewis & Copeland, Lima, $233,257; Auglaize Co., Sect. "G" Sidney-Wapakoneta Rd., 5.305 mi., rein.-con., to Lewis & Copeland, Lima, $155,410; Clark Co., Sect. "O" Springfield-Washington C. H. Rd., 1.857 mi., bituminous macadam, asphalt, to Central Paving Co., Hamilton, $42,044; Columbiana Co., Sect. "A-1" Lisbon-Canton Southern Rd., 3.922 mi. bituminous macadam, to W. H. Ringwald & Co., Chillicothe, $40,411; Crawford Co., Sect. "M" and "N" Marion-Bucyrus Rd., 6.705 mi., brick, to E. A. Freshwater & Son, Bucyrus, $37,750; Fayette Co., Sect. "G" Washington C. H.-London Rd., 4.268 mi., bituminous macadam, tar, to Craig & Jordan, Blanchester, $86,927; Hamilton Co., Sect. "Z" Glendale-Milford Rd., 1.798 mi., plain concrete, to Cleary, Coley & Berry, Cincinnati, $96,073; Holmes Co., Sect. "B" Navarre-Berlin Rd., 3.987 mi., plain concrete, to Griggs-Anderson Constr. Co., Millersburg, $78,426; Lawrence Co., Sect. "O" Ohio River Rd., 1.468 mi., bituminous macadam, tar, to Jenkins Bros., Kittsville, $35,505; Pike Co., Sect. "C-1" Columbus-Portsmouth Rd., 0.393 mi., rein.-con., to Anderson & Brown, Chillicothe, $21,617; Tuscarawas Co., Sect., "Mineral City" Canton-Canal Dover Rd., 1.03 mi., brick, to Daley Bros., Bolivar, $34,611; Athens Co., Sect. "L-1" New Lexington-Athens Rd., 2.659 mi., grading and constructing bridges, to Sterling Contractors, Akron, $31,544; Lawrence Co., Sect. "M-2" Ohio River Rd., constructing rein.-con. bridge, 742 ft. long, to Mahl Bros., Akron, $14,798; Hamilton Co., Sect. "Z" Glendale-Milford Rd., constructing drainage structures, Cleary, Coley & Berry, Cincinnati, $60,663; Lawrence Co., Sect. "M-3" Ohio River Rd., constructing culvert, to G. C. Harden, Ironton, $3,721. Noted July 13.

O., Akron—M. P. Tucker, dir. Pub. Serv., grading and paving, etc., East Tallmadge Ave. from Columbia Ave. to east corporation line, to McAlonan Bros., 506 Woodland Ave., $124,331; Victory St. from Ira Ave. to Kenmore Blvd., to M. Kalain and M. Guran, $2,752; Theodore St. from Kenmore Blvd. to Lakeside Ave., to Crano & Lombardi, $5,503; Bluff St. from point 155 ft. northeast of North College St., incl. North Prospect St. from Perkins to Bluff Sts. also Weber Ave., etc., to H. Gilbert, 19 South Martha Ave., $32,296 and $15,927 respectively; Cole Ave. from High to Grant Sts., to V. Olson Contg. Co., Herberich Bldg., $61,257; Spicer St. from point 200 ft. south of Beacon to South Sts., to T. E. McShaffrey Constr. Co., 171 South Forge St., $34,274. Noted July 13.

O., Bellaire—Bd. Control paving 1 mi. West 23rd St., concrete and gravel, to Rosser & Maloney, Bellaire, $48,000. Engrs. est. $80,000.

O., Dayton—G. F. Baker, dir. Pub. Serv., paving North Main St., brick, to C. Hoolihan, 1406 Riverview Ave., $60,000, Kenwood Ave. E and Bellmonte Park, both rein.-con., to E. A. Smith, 702 Commercial Bldg., $6,510 and $8,827 respectively; grading and graveling Yuncker Ave., to C. F. Wilmore, Dayton, $5,488. Noted July 6.

O., Maple Heights (Bedford P. O.)—Paving Clement Dr., Mapleboro Rd., Greenlawn and Raymond Aves., brick, to A. M. Pejsa Paving Co., Euclid Heights Blvd., Cleveland Heights, $43,404. Noted June 22.

O., St. Clairsville—Belmont Co. paving 2.11 mi. Martins Ferry-Colerain Rd., brick, to Stringer & Springer, 201 Wheeling Steel Corp., Bldg., Wheeling, W. Va., $67,047; Flushing-Uniontown Pike Rd., to Miller & Fletcher, St. Clairsville, $25,049. Noted June 22.

O., Warren—Trumbull Co. grading and paving 1½ mi. Palmyra Rd., bituminous macadam, to Evans Bros., Hubbard, $31,955. Engrs. est. $42,000; 4 mi. Everitt-Cortland-Hull Rd., concrete, to Turner Contg. Co., Park Theatre Bldg., Youngstown, $98,150. Engrs. est. $104,000.

Indiana—State Hy. Dept., Indianapolis, paving, etc., 1.333 mi. Lincoln Highway, in Lake Co., 40 ft., 281,480 sq.yd. concrete, to Stone & Webster, Inc., 147 Milk St., Boston, Mass., $100,000.

Michigan—State Hy. Dept., Lansing, grading and surfacing 3.136 mi. State Trunk Line Rd. 37-5 Sect. C, Barry Co., 16 ft., 20,177 cu.yd. earth excav., 20,397 sq.yd. gravel, 3.14 mi. State Trunk Line Rd. 89-1, Barry Co., 16 ft., 34,578 cu.yd. earth excav., 31,922 sq.yd. gravel, to P. W. O'Connor Co., Grand Rapids, $26,990 and $38,524 respectively; 4.945 mi. State Trunk Line Rd. 12-36, Dickinson Co., 16 ft., 38,577 cu.yd. earth and 150 cu.yd. rock excav., 46,857 sq.yd. gravel, to M. Blomquist, Metropolitan, $44,969; 1.134 mi. State Trunk Rd. 18-20 Sect. A and 61-2 Sect. A, Gladwin Co., 20 ft., 5,289 cu.yd. earth excav., 13,288 sq.yd. concrete, to H. Campbell & Son, Bay City, $18,674, cement furnished by State cost $11,798; 2.034 mi. State Trunk Line Rd. 25-14 Sect. A, Alger Co., 16 ft., 8,789 cu.yd. earth excav., 19,012 sq.yd. bituminous macadam, to Alger Co., Road Comr., Munising, $30,000. Noted July 13.

Michigan—State Hy. Dept., Lansing, grading and surfacing Federal Aid Project 71, Charlevoix Co., 4.146 mi. Sect. A. to Pierson & Alswede, Husey, incl. 37.145 cu. yd. excav. $0.38, 109.4 cu.yd. 1:2:4 and 61 cu.yd. 1:3:6 concrete $12.50, total $17.389. 2.642 mi. Sect. B, to Charlevoix Abstract & Eng. Co., Charlevoix, incl. 12.704 cu.yd. excav. $0.55, 27,903 sq.yd. concrete $1.30, 48.8 sq.yd. 1:2:4 and 32.8 cu.yd. 1:3:6 concrete $12.50, total $47,161: 4.56 mi. State Trunk Line Rd. 16-5. Ottawa Co., to H. A. Hoxie, Grand Rapids, incl. 240.7 sta. grading $15, 48,144 sq.yd. rein.-con. pavement $1.48, total $76,823; 1.269 mi. State Trunk Line Rd. 11-12 Sect. B. Grand Traverse Co., to H. A. Hoxie, Grand Rapids, $20.569. Noted June 15 and July 13.

Mich., Menominee—Paving various streets, 30,000 sq.yd. rein.-con., 16,400 lin-ft. concrete curb and gutter, 16,000 sq.ft. concrete sidewalk, 30 catchbasins, to G. Lundin, 1130 Stephenson Ave. $94,000. Noted June 22.

Mich., Saulte Ste. Marie—Paving 10,000 sq.yd. various streets, bitulithic, to General Contg. Co., 1228 Plymouth Bldg., Minneapolis, Minn., $43,576.

Streets and Roads (Continued)

Wis., Elkhorn—Walworth Co. gravel surfacing Whitewater-East Troy Rd., to F. C. Wiswell, Elkhorn, $1.49 per cu.yd., total $14,828; concrete street surfacing in city Whitewater, to Fess & Fess, 123 East Doty St., Madison, $1.34 per sq.yd., total $42,825. Noted June 22.

Wis., Juneau—Dodge Co. concrete surfacing, etc., Beaver Dam-Columbus Rd., to P. C. Kroeck, 1000 Humboldt Ave., Milwaukee, $127,128. Contractor wants quotations on all materials, exclusive of cement.

Wis., Kenosha—Paving Exchange and Eagle Sts., West Park, Deming, Chicago and Durkel Aves., Mexican asphalt, to Western Impvt. Co., 840 9th St., Racine, $31,394.

Wis., Kenosha—Paving various streets, 49,000 sq.yd. Mexican asphalt, to White Constr. Co., 68 Wisconsin St., Milwaukee, $2.70 per sq.yd. Noted July 6.

Wis., La Crosse—Paving various streets with Trinidad bituminous concrete, to White Constr. Co., 68 Wisconsin St., Milwaukee, $229,000.

Wis., Ladysmith—Paving 1 mi. various streets, 25 ft., with one course concrete and sidewalks with curb and gutter, to R. A. Ohlfs, Ladysmith, $35,900. Engrs. est. $35,000.

Wis., Medford—Paving 16,000 sq.yd. Main, State, Division and Wisconsin Sts., 7 in. vibrolithic concrete, to A. Larson & Co., 419 South Barstow, Eau Claire, $52,114. Noted March 16.

Wis., North Fond du Lac—Paving 2.1 mi. Wisconsin and Lincoln Sts., 20 ft., 20,000 sq.yd. 2 course rein.-con., 12,200 lin.ft. combined concrete curb and gutter, to Fess & Fess, 605 Willard Ave., Madison, $69,837. Engrs. est. $60,000.

Wis., Racine—Paving 14,000 sq.yd. Asylum Ave., rein.-con., and 8,000 sq.yd. 12th St., asphaltic concrete, to Western Impvt. Co., 840 9th St., $38,360 and $22,880 respectively.

Ia., Clinton—Grading, curbing and paving (1) Dist. 2, 9th St., Lyons from Main St. to north city limits, 13,050 sq.yd. 7 in. rein.-con., 2,200 lin.ft. 6 in. curbing, 438 ft. 18 in. sewer, etc., (2) Sect. P, 14,078 lin.ft. combined curb and gutter, (3) Sect. Q, 2,718 ft. combined curb and gutter, to South West Coal & Materials Co., Inc., 2038 West 59th St., Chicago, (1) $37,845 (2) $12,347 (3) $2,480; Sect. K, 11,561 sq.yd. 2 in. bituminous concrete bitulithic on 5 in. concrete, 5,582 lin.ft. combined curb and gutter, Sect. F, 7th St. Lyons, and Ringwood Pl. from Commercial to Munson Sts., 16,353 sq.yd. 2 in. bitulithic on 5 in. concrete, 4,835 lin.ft. combined curb and gutter, to McCarthy Impvt. Co., 220½ Main St., Davenport, $43,789 and $57,887 respectively; Sect. J, 8th St. from 8th Ave. to 11th Ave., 2,880 sq.yd. bitulithic on 5 in. concrete, 1,534 lin.ft. combined curb and gutter, Sect. N, Peck Ave. from Camanche to Iowa Aves., 2,369 sq.yd. 2 in. bitulithic on 5 in. asphalt, 1,920 lin.ft. combined curb and gutter, to T. Carey & Sons, 308 Weston Bldg., $12,069 and $8,804 respectively. Noted June 29.

Ia., Des Moines—Polk Co. grading and concrete paving 7.715 mi. road from Polk City northwest to county line, 12,221 cu.yd. excav., 90,625 sq.yd. Class A concrete, to Bryant Asphalt Co., Waterloo, $2.44 per sq.yd. for pavement. Noted June 29.

Minnesota—State Hy. Dept., St. Paul 1.22 mi. State Project 1-37, Federal Aid Project 286, Ramsey Co., 4,900 cu.yd. excav., 17,478 sq.yd. concrete base, 16,761 sq.yd. asphaltic concrete surface, to Fielding & Shepley, 216 University Ave., St. Paul, $58,500; 13 mi. State Project 2-24, Federal Aid Project 291, Clay Co., 185,573 cu.yd. excav., culverts, two bridges, to Larkin Constr. Co., Berry, $27,587 for Div. A and $37,195 for Div. B. Noted July 6.

Minn., Le Sueur Co.—Le Sueur Co., to Barrett & Quinn, St. Cloud, grading State Rd. 9, Job 224, 153,041 cu.yd. excav. at $0.19 per cu.yd., State Rd. 23, Job 221, 23,596 cu.yd. excav. $0.20, State Rd. 28, Job 222, 35,918 cu.yd. excav. $0.20, State Rd. 17, Job 223, 10,198 cu.yd. excav. Noted May 25.

Minn., Little Falls—Morrison Co., State Rd. 4, Job 2204, grading to A. Peterson, Little Falls, $10,297, graveling to M. Barrett, St. Cloud, $6,419; Job 2206 to M. Barrett, St Cloud, $14,887. Noted June 1.

Kan., Hutchinson—Reno Co. paving 0.564 mi. Federal Aid Project 122, 18 ft., brick incl. 1,681 cu.yd. earth excav., 47.8 cu.yd rein.-con., etc., to J. H. Shears & Sons, Hoke Bldg., $19,731. Noted June 22.

Kan., Troy—Doniphan Co. grading and paving 7 mi. Pikes Peak Ocean to Ocean Highway, 18 ft. concrete roadway, to Giegler & Dalton Constr. Co., Junction City, $232,756; bridge on above, to R. P. Harper, Troy, $25,166. Noted June 22.

Neb., Fall City—To M. R. Ammerman, Wichita, Kan., paving Dist. 20 and 23, 20,980 lin.ft. combined curb and gutter $0.75 per lin.ft., 28,496 sq.yd. asphaltic concrete pavement $2.30, 3,500 cu.yd. grading $0.01.

South Dakota—State Hy. Dept., Pierre, gravel surfacing 16 mi. Federal Aid Project 38, Jerauld Co., to D. D. Bidwell, Wessington Springs, $29,777. Noted June 1.

S. D., Sioux Falls—Paving 17 blocks 26th St. from Cliff to Summit Aves., 22,212 sq.yd. concrete, to C. H. Atkinson Paving Co., Watertown, $50,000. Noted June 15.

N. D., Grand Forks—Paving 37,020 sq.yd. various streets, rein.-con., to Northern Constr. Co., 9 North 8th St., $130,227. Noted Feb. 23.

Montana—State Hy. Dept., Helena, grading and gravel surfacing 12.17 mi. Federal Aid Project 176 from Sun River to Simms, Lewis and Clark Co., to B. P. Melchert, 203 Montana Bldg., Lewistown, $84,948.

Tex., Groveton, Trinity Co.—Grading, surfacing, etc., 16.3 mi. State Highway 19, Federal Aid Project 225, 87,024 cu.yd. borrow, 790 cu.yd. concrete, 1,955 sq.yd. concrete pavement, 35,560 cu.yd. gravel surfacing, 69,068 lb. reinforcing, etc., to Smith Bros., Crockett, $172,665. Engrs. est. $205,545.

Missouri—State Hy. Dept. at div. office Alexandria, concrete paving 1.67 mi. Federal Aid Project 172, Clark Co., to Cameron-Joyce & Co., Keokuk, Ia., $50,792. Noted July 13.

Missouri—State Hy. Dept. at div. office Springfield, 9,043 mi. Federal Aid Project 190, Greene Co., gravel, to Oliver Constr. Co., 322 West Markham St., Little Rock, Ark., $43,714.

Tex., Dallas—Dallas Co. grading, reshaping, scarifying and surfacing 2.9 mi. Maple Ave. Rd., 18 ft. and 8.6 mi. Midway Church Rd., 18 ft., to Hill, Wilson & Watson, 502 Slaughter Bldg., $23,971 and $63,377 respectively. Engrs. est. $38,000 and $107,000 respectively, including material, engineering and contingencies. Noted July 13.

Tex., Danyon—Paving 0.3 mi. various streets, to Panhandle Constr. Co., Lubbock, $33,896. Noted May 25.

Tex., Wichita Falls—Wichita Co. improving 7 mi. Iowa Park-Jonesdale Denny Rd., 18 ft., grading, to B. O. Gilstrap, Iowa Park, $9,518; gravel surfacing, to L. E. Whitham & Co., Wichita Falls, $29,904; constructing concrete culverts, to R. B. Stroup, Wichita Falls, $4,490. Engrs. est. $48,305, including 10% for engineering contingencies.

Oklahoma—State Hy. Dept., Oklahoma City, paving 2 mi. road, Project 55, Muskogee Co., bituminous macadam, to Hinson Bros., Muskogee, $27,531; 4.87 mi. Project 12 E, Tulsa Co., plain cement, to D. A. Burton, Tulsa, $125,687.

Colorado—State Hy. Dept., Denver, gravel surfacing 5.797 mi. Delta-Grand Junction Rd., Federal Aid Project 171, Delta Co., 16 ft. wide, also one 12 x 14 ft. box culvert, to Reeves & Cook, 2202 Adams Ave., Ogden, Utah, $49,693; concrete paving 4.405 mi. Lincoln Highway State Rd. 9, Federal Aid Project 228, Logan Co., 18 ft. wide, to La Nier, Selander & White, Ft. Morgan, $134,986. Noted July 6.

Wash., Seattle—Paving Wilson Ave., 4,380 sq.yd. 6 in. and 34,450 sq.yd. 7 in. concrete, 7,125 lin.ft. concrete curbing, 12,000 cu.yd. excav., to Independent Asphalt Paving Co., Seaboard Bldg., $133,467. Engrs. est. $140,598. Noted July 15.

Wash., Spokane—Spokane Co., gravel surfacing 9 mi. Garfield-Palouse State Rd., to Triangle Constr. Co., Spokane, $36,562. Engrs. est. $37,000.

Cal., Oroville—To Collins & Seppi, Clement, excavating and placing in storage pile 14,000 cu.yd. bank gravel on Gridley Colusa Rd., $0.38 per cu.yd., spreading and hauling same $0.35; to D. Bayles, Gridley, grading Riceton Rd., 16,000 cu.yd., at $0.42. Noted June 29.

Ontario—Provincial Hy. Dept., Toronto, concrete paving 2 mi. Talbot Rd., 20 ft., Elgin Co., to Lumsden Eng. Co., 1002 Lumsden Bldg., Toronto. Engrs. est. $130,000.

Ont., Dresden—Paving St. George St., 18,500 sq.yd. concrete, to Cadwell Sand & Gravel Co., 228 Sandwich St. W., Windsor. Engrs. est. $27,000. Noted March 23.

Ont., Essex—Paving Victoria, Arthur, Wilson and Cameron Aves., concrete, to Cadwell Sand and Gravel Co., 228 Sandwich St., W., Windsor. Engrs. est. $38,000. Noted May 11.

Ont., Welland—Welland Co., paving 2½ mi. highway, 9 ft., waterbound macadam, to Canadian Eng. Co., 72 James St. N., Hamilton, and 5 mi. to Law Constr. Co., Ltd., 107 Hillsdale Ave., Toronto. Engrs. est. $100,000. Noted May 18.

Industrial Works

PROPOSED WORK

N. J., Camden—Cadillac Auto Co., 525 Market St., having plans prepared by Lackey & Hettel, archts., 509 Federal St., 4 story, 48 x 126 ft., auto show room and service station, 11th and Market Sts. $100,000.

Pa., Berwyn—Hester Price Canning Co., Berwyn, plans to rebuild factory and power plant. $40,000. Architect not selected.

Pa., Reading — Central Abattoir Co., Chestnut St., soon receives bids 3 story brick, steel and concrete addition to packing plant. $175,000. Himmelsbach & Schlich, 136 Liberty St., New York, archts. and engrs. Noted June 8.

Pa., Sharon—Standard Tank Car Co. will build 50 x 100 ft. addition to factory. $75,000. Architect not announced.

Pa., Sunbury—Sunbury Water Co. plans 1 story, 50 x 50 ft. brick boiler house. Engineer not announced.

N. C., Lincolnton—Lincolnton Creamery & Ice Co. plans to rebuild ice plant recently destroyed by fire. $100,000. Architect not announced.

O., Akron—International Lead Refining Co., 151st St. and McCook Ave., East Chicago, Ind., soon takes bids refinery, incl. 4 structural steel and galvanized iron buildings, plain foundation, Tallmadge Ave., here. $500,000.

O., Cleveland—Cleveland Sanitary Wipers Co., 5815 Bway., plans 2 story, brick and steel factory, plain foundation. $50,000. S. I. Fineman, mgr. Architect not selected.

O., Cleveland—I. Fergenbaum, Ulmer Bldg., having plans prepared by Best & Hoefler, archts., 6523 Euclid Ave., 1 story, 40 x 120 ft., brick and steel garage, 3643 Carnegie Ave. $50,000.

O., Cleveland—Standard Equipment Co., Lorain Ave. and West 106th St., having plans prepared by I. F. Domizi, archt. and engr., Lorain Ave. and West 106th St., 1 story, 60 x 200 ft., brick and steel forge shop. $40,000.

Ind., Indianapolis—Enquirer Printing Co., 309-11 East Ohio St., plans 3 story, 58 x 85 ft. rein.-con. printing plant, East Ohio St. $60,000. Architect not selected.

Ind., Indianapolis—R. H. Hassler, Inc., 1535 Naomi St., having plans prepared by Fitton & Mothershead, archts., 540 North Meridian St., 3 story, 37 x 120 ft. service station and sales building, tapestry brick, Meridian and St. Joseph Sts. $75,000.

Ind., South Bend—Studebaker Corp., Main and Bronson St., plans 1 story power plant addition. $100,000. A. Kahn, 1000 Marquette Bldg., Detroit, Mich., engr.

Mich., Detroit—Ford Motor Co., Highland Park, had plans prepared by A. Kahn, archt., 1000 Marquette Bldg., 1 story, 245 x 1570 ft. brick and steel factory, plain foundation, Livernois Ave.

Mich., Detroit—Packard Motor Car. Co., Blvd. and Belt Line Ry., having plans prepared by A. Kahn, engr. and archt., 1000 Marquette Bldg., 1 story, 20 x 850 ftt wood and steel shipping sheds. $45,000.

Wis., Appleton—G. R. & S. Motor Co., 738 Washington Ave., having plans prepared by E A Wettengel, archt. 578 Pierce Ave., 1 story, 32 x 100 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation, Washington St. $40,000. Noted July 6.

Wis., Cazenovia—Cazenovia Creamery Co., c/o F. J. Moyes, mgr., plans 1 story, 60 x 150 ft. dairy, brick, rein.-con. and steel, plain foundation. $40,000. Architect not selected.

Wis., Neenah—Jaeger-Wheeler Co., 417 2nd St., Menasha, having plans prepared 2 story, 50 x 95 ft. garage and repair shop, brick, rein.-con. and steel, plain foundation, Main and Commercial Sts. $40,000. Private plans.

Wis., Waukesha—Harvey Paper Specialty Co., Main St., plans 1 story, 80 x 122 ft., concrete and steel plant, plain foundation. $40,000. Architect not selected.

Minn., St. Paul—State Bd. of Control, Capitol, soon takes bids 3 story, rein.-con., brick and tile dairy with 1 story wing, at College of Agriculture, University of Minnesota. $210,000. C. H. Johnston, 715 Capitol Bank Bldg., engr. J. M. Forsyth, 946 15th Ave. S. E., Minneapolis, archt.

Mont., Laurel—Northwest Refining Co., Billings, plans refinery, 2,000 bbl. daily capacity, here. R. M. Hodgins, mgr. H. O. Simmons, c/o owner, engr.

Mo., Sikeston—Preparing plans municipal electric light and power plant. Fuller & Beard, Chemical Bldg., St. Louis, engrs.

Ark., Arkansas City—Moore Oil & Refining Co. plans additions, to increase daily capacity of refinery from 6,000 to 10,000 bbl. Architect not announced.

Industrial Works (Continued)

Col., Taft—See "Buildings."

Ont., Ford—Ford Motor Co. of Canada having plans prepared for new plants. $6,000,000. Private plans. W. R. Campbell, vice pres.

Ont., London—Shell Oil Co., 3608 Notre Dame St., Montreal, Que., purchased site here and is securing sites in district points, and plans to build receiving and distributing stations. $250,000. Private plans.

Ont., Welland—Welland Cotton Mills, Ltd., having plans prepared by W. J. Westaway Co., archts., 38 Main St. W., Hamilton, concrete, brick and steel mill, Queen and Duncan Sts. $200,000. Noted June 22.

B. C., Kimberley—Consolidated Mining & Smelting Co., Ltd., Kimberley, plans 500 ton concentrator plant. Private plans.

BIDS DESIRED

Conn., Hamden—Safety Car Heating and Lighting Co., Dixwell Ave., taking bids 1 story, 100 x 195 ft. brick and steel factory, also 1 story, 110 x 115 ft. brick addition to present plant. Stovel & Brinkerhoff, 136 Liberty St., New York, archts. and engrs.

Conn., Stamford—Frankel & Warshaw, 262 Atlantic St., taking bids 2 story, 85 x 90 ft. brick and steel garage, plain foundation, State St. $40,000. S. Z. Levine, Gurley Bldg., archt.

N. Y., Wende—See "Buildings."

Pa., Phila.—R. R. Muly, archt., 2126 Pine St., receiving bids 3 story, 30 x 110 ft. factory, rein.-con., brick and steel, 4712 Market St. for Harrison Brush Co., 4th and Arch Sts. $45,000.

O., Cleveland—Cleveland Kraut & Pickle Co., 1191 East 22nd St., taking bids and opens same about Aug. 1, 2 story, 60 x 80 ft., brick and steel factory, 3333 Lakeside Ave. $50,000. D. S. Duncan, secy. and mgr. Private plans. Noted June 22.

Wis., Milwaukee—Federal Eng. Co., engrs., 444 Milwaukee St., taking bids on (structural steel) for 1 story, 76 x 128 ft. addition to warehouse, brick and steel, Chestnut St., for Harley-Davidson Motor Co., 3732 Chestnut St. $40,000.

Wis., Milwaukee—Federal Eng. Co., engrs., 444 Milwaukee St., taking bids 6 story, 64 x 64 ft. addition to textile mill, brick and concrete, plain foundation, 5th St., for Holeproof Hosiery Co., 404 Fowler St. $50,000.

Cal., Sacramento — Wollett & Lamb, archts., Hagelstein Bldg., receiving bids 4 story, rein.-con. plumbing house, Front and M Sts., for Crane Co., Front and M Sts. Noted April 13.

Mexico, Coahuila—Amer. Smelting & Refining Co., 120 Bway., New York, will build several rein.-con., brick and steel buildings, plain foundations. $7,000,000. Work will be done by separate contracts under supervision of owner.

BIDS RECEIVED

N. Y., Central Islip—State Hospital Comn., Albany, opened bids June 28, addition to storehouse for cold storage plant and equipment at Central Islip State Hospital, here, general contract, from B. S. Raynor, Islip, $46,740, M. Kantrowitz, Market St., Albany, $53,800; refrigeration work, from Shipley Constr. & Supply Co., 42nd St. and 2nd Ave., Brooklyn, $29,900, Mayer Ice Machine & Eng. Co., 315 Grant Ave., Jersey City, N. J., $31,600, Amer. Carbonic Machine Co., 30 Church St., New York, $32,835. Noted June 15.

N. Y., New York—G. A. Whalen, comr. Plant & Structures, Municipal Bldg., opened bids July 14, housing station, 132nd St. west of Willow Ave., Bronx, for Dept. Street Cleaning, from Lustig & Weil, 103 Park Ave., $70,947; Rosenthal Eng. Contg. Co., 228 Jackson St., Brooklyn, $72,146; J. Young, Jr., 103 Park Ave., $72,347. Noted July 6.

CONTRACTS AWARDED

Mass., Fall River—Fall River Bleachery, foot Lawton St., 5 story, 110 x 115 ft. storage plant, brick and concrete, plain foundation, to Beattie & Wilcox, 840 Bedford St. Archts. est. $150,000.

Conn., Essex—E. E. Dickenson & Co., 3 story, 40 x 100 ft. brick and timber factory addition, to Pierretti Bros., Centerbrook. Archts. est. $40,000. Noted June 22.

N. Y., Batavia—C. Mancuso & Son, 322 Ellicott St., 2 story, 81 x 100 ft., brick garage and salesroom, Main St., to A. T. McCowan, Batavia. Archts. est. $40,000. Noted June 29.

N. J., Camden—N. B. T. Rooney, 2 story, 52 x 100 ft. garage and service station, brick and steel, plain foundation, Haddon and Sycamore Aves., to Emile-Schulke, 1183 Jackson St. Archts. est. $50,000.

N. Y., Green Island (Troy P. O.)—Ford Motor Co., Highland Park, Mich., 1 story steel and concrete plant with concrete dock, double craneway and traveling cranes, here, to F. T. Ley Co., 495 Main St., Springfield, Mass.

Pa., Phila.—Hellwig Dyeing Co., 9th and Buttonwood Sts., 1 story, 40 x 240 ft. and 40 x 100 ft. rein.-con., brick and steel machine shop, plain foundation, Wissinoming Dist., to F. W. Van Loon, Perry Bldg.

Pa., Phila.—Hulton Dyeing Co., 3819 Frankford Ave., 2 story, 62 x 203 ft. rein.-con., brick and steel factory, plain foundation, Coral St. and Wheatsheaf Lane, to P. F. Crompton & Co., 4614 Oakland St., $60,000.

Pa., Phila.—J. Pinheiro, 1007 Race St., 2 story, 94 x 100 ft. rein.-con. and brick garage, plain foundation, 910 Spring St., to Coneen Constr. Co., 10 South 18th St. Archts. est. $80,000.

Pa., Phila.—B. S. Pincus, 21st and Market Sts., 3 story, 48 x 100 ft. rein.-con. and brick packing plant, 454 North American St., to T. A. Sloutenberry, 1509 Chestnut St. Archts. est. $90,000.

Pa., Phila.—Proctor & Swartz Co., 6th St. and Tabor Rd., will build 1 story, 125 x 450 ft. rein.-con., brick and steel factory, by day labor. $100,000. Private plans.

Pa., Phila.—Universal Service Motor Co., 1407 Locust St., 6 story, 70 x 116 ft. rein.-con., brick and steel garage, Broad and Manning Sts., to P. M. Sax, Penfield Bldg. Archts. est. $250,000.

Pa., Starbrick (Warren P. O.)—Warren Tank Car Co. will rebuild factory, here, by day labor under supervision of M. Mathis, genl. mgr. $75,000. Noted June 22.

N. C., Lexington—Erlanger Cotton Mills, 1 story, 69 x 229 ft. (daylight construction), cloth room and cloth storage building, to Fiske-Carter Constr. Co., Greenville, S. C.

La., New Orleans—Ford Motor Co., Highland Park (Detroit P. O.)—1 and 2 story, rein.-con. and brick factory, plain foundation, North Peters St., here, to Reiss & Moody, 503 Carondelet Bldg., New Orleans.

O., Alliance—H. W. Wagner, 1 story, 50 x 100 ft., brick and steel garage, to Boldt Constr. Co., 5902 Euclid Ave., Cleveland. Archts. est. $50,000.

O., Cleveland—W. S. Ferguson Co., archts., 1900 Euclid Ave., 3 story, 140 x 148 ft., rein.-con. and brick service station, East 25th St. near Payne Ave., to S. W. Emerson, 1836 Euclid Ave. for Studebaker Corp. of America, 2020 Euclid Ave. Archts. est. $250,000. Noted June 29.

O., Cleveland—W. Koehl, archt., Park Bldg., taking bids 2 story, 50 x 130 ft., brick and steel garage and commercial building, West 30th St. and Lorain Ave., for West Center Sales Co., c/o architect. $50,000.

O., Dayton—Dayton Daily News, 4 story, rein.-con., brick and tile factory, plain foundation, 4th and Ludlow Sts., to Industrial Bldg. Co., 757 Reibold Bldg., $168,000. Noted June 22.

Ind., Indianapolis—Zenith Metal Co., 201 North West St., 1 story, 100 x 200 ft. brick, steel and concrete factory, North West St., to Service Constr. Co., P. O. Box 444. Archts. est. $100,000.

Ind., Michigan City—Sullivan Mchy. Co., 122 South Michigan St., Chicago, 1 and 2 story, 400 x 550 ft. factory, 50 x 400 ft. power house, etc., brick and steel, here, to Witherspoon Englar Co., 53 West Jackson Blk., Chicago; cost plus percentage basis. Archts. est $1,000,000. Noted June 29.

Ill., Chicago—McAdam Mfg. Co., general contract for 2 story, factory, rein.-con. and brick, 27th and Troy Sts., to Bowie, Lydon & Co., Inc., 340 West Harrison St., $100,000.

Ill., Chicago—O. V. Palmquist & Co., 4884 North Clark St., 1 story, 60 x 163 ft. brick factory, 5915-23 East Ravenswood Ave., to O. Soderlund, 4354 North Leavitt St. Archts. est. $40,000.

Ill., Chicago—U. S. Sample Co., 901 South Wells St., 6 story, 125 x 125 ft. printing plant, rein.-con., brick and steel, Jackson Blvd. and Laflin St., to R. F. Wilson & Co., 1851 Elston Ave. Archts. est. $350,000. Noted April 6.

Ill., North Chicago — Davis-Watkins Dairymens Mfg. Co., 130 North Wells St., Chicago, 1 story, 100 x 140 ft. factory addition, rein.-con. and brick, plain foundation, here, to Raulf Co., 428 Grand Ave., Milwaukee, Wis. Archts. est. $70,000.

Wis., Beloit—J. H. Saris, 412 Broad St., 1 and 2 story, 100 x 130 ft., brick and concrete garage, plain foundation, to W. J. Fitzgerald, 726 Central Ave. Engrs. est. $55,000.

Wis., Delavan—State Bd. Control, Madison, 1 story, 75 x 90 ft., brick, rein.-con., and steel laundry, plain foundation, to Immel Constr. Co., 200 North Main St., Fond du Lac. Engrs. est. $50,000. Noted July 6.

Wis., Eau Claire—Chippewa Valley Products Co., 220 South Water St., 2 story 70 x 125 ft., cold storage warehouse, brick, rein.-con. and steel, plain foundation, to A. Larson Co., 418½ South Barstow St. $60,000.

Wis., New London—Amer. Plywood Co., 2 story, 90 x 144 ft., brick and rein.-con. factory, plain foundation, to W. E. Polley, Main St. $70,000.

Wis., Madison—Kennedy Dairy Co., 618 University Ave., 2 story, 85 x 132 ft. factory, brick, rein.-con. and steel, plain foundation, to C. B. Fritz, 440 West Dayton St. Engrs. est. $80,000. Noted May 25.

Me., Lewiston—Lewiston Bleachery & Dye Wks., Lisbon St., 3 story, 40 x 110 ft. addition to sheeting department, brick and concrete, plain foundation, to D. Lemieux, 15 Russell St. Archts. est. $40,000. Noted June 8.

Cal., Pittsburg—California Bean Growers' Assn., 120 Battery St., San Francisco, 1 story, 80 x 350 ft., corrugated iron and frame warehouse and 5 story, 20 x 40 ft. mill, here, to Cahill Bros., 110 Sutter St., San Francisco, $80,000. Noted July 13.

Cal., San Francisco — Petri Italian-American Cigar Co., Inc., 419 Jackson St., 4 story, 137 x 137 ft., concrete factory, Battery and Vallejo Sts., to Del Favero & Sasori, 2042 Taylor St., $200,000. Noted June 1.

Buildings

PROPOSED WORK

N. H., Nashua—Bank and Office—Second Natl. Bank, 185 Main St., soon takes bids brick, steel and stone, plain foundation. $200,000. Mowbray & Uffinger, 56 Liberty St., New York, archts. and engrs.

Conn., Norwalk—Hotel—J. A. Legate, 4 River St., having plans prepared by F. Urso, archt., 453 West Main St., Stamford, remodeling Norwalk Hotel, and constructing 2 story, 105 x 135 ft. brick and steel addition, Wall St. $150,000.

N. Y., New York—Apartment—Twenty Sixty Nine Bway. Corp., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., having plans prepared 9 story, 50 x 102 ft., brick, steel and stone, plain foundation, 17-19 East 84th St. $300,000.

N. Y., New York—Hospital—Womens Hospital of Bronx, c/o Bloch & Hesse, archts. and engrs., 18 East 41st St., having plans prepared brick, steel and stone, plain foundation, Lafayette and Manida Aves. $200,000.

N. Y., Olean—Temple—Masonic Club Co. plans temple, Laurens St. To exceed $200,000. Architect not selected.

Pa., Lewisburg—Stadium, etc.—Bushnell University having plans prepared by Carrere & Hastings, archts., 52 Vanderbilt Ave., New York, brick, steel and stone stadium and gymnasium, plain foundation. $500,000.

Pa., Phila.—Bank and Office—Mutual Trust Co., Bourse Bldg., having plans prepared by Heacock & Hoakenson, archts., Bailey Bldg., and soon takes bids 12 story, 4th and Market Sts. $2,000,000.

Pa., Phila.—Office—Phila. Realty Bd., 39 South 17th St., having plans prepared by Ballinger Co., archts., 12th and Chestnut Sts., 3 story, 36 x 103 ft. brick and steel, plain foundation, 13th and Locust Sts. $200,000.

Pa., Swarthmore—High School—Simon & Simon, archts., 249 South Juniper St., Phila., soon receive bids 3 story brick, steel and cut stone, here, for Bd. Educ. $200,000.

W. Va., Huntington — Fair — Tri. State Agricultural Fair, c/o J. F. Peck, 1407 Keenan Bldg., Pittsburgh, Pa., having plans prepared by Joseph & Joseph, archts., Atherton Bldg., Louisville, Ky., 1 story, 100x200 ft., brick and steel, manufacturers exhibit building, grandstand, race track, other frame buildings, stables, etc. $650,000, J. N. Doyle, 320 9th St., Huntington, W. Va., engr.

N. C., Concord—School—Voted $150,000 bonds for high school, $25,000 for negroes school and $50,000 for enlarging and repairing existing buildings.

Ky., Owensboro—High School—A. F. Hussander, archt., 25 North Dearborn St., Chicago, soon takes bids 3 story, rein.-con., brick and steel. $250,000. Noted March 9.

O., Akron—Court House—Summit Co., Court House, opened bids July 12, 3 story annex, stone or terra cotta and brick, plain foundation, South Bway., from Carmichael Constr. Co., 524 Hamilton Bldg., $374,880;

Buildings (Continued)
Clemmer & Johnson, 406-7 Metropolitan Bldg., $386,200; T. E. McShaffrey, 171 South Forge St., $398,000. Above bids rejected. Archts. est. $350,000. Noted April 6.

O., Chagrin Falls—Clubhouse, etc.—See "Dams."

O., Cleveland—Court—City, c/o A. Dempsey, ch. justice, City Hall, plans 3 or 4 story, brick, steel and concrete. $500,000. Architect not selected.

O., Columbus—Administration, etc.—Bd. Trustees Ohio State University, had plans prepared by J. N. Bradford, archt., Ohio State University, 4 story administration building $300,000, 4 story medical science building $250,000, 4 story commerce and journalism building $300,000, all brick, concreteand stone.

O., Orient—Cottages—Dept. Welfare, Oak and 9th Sts., Columbus, had plans prepared by R. S. Harst, state archt., Ohio-Hartman Bldg., Columbus, and soon takes bids four 1 story, and two 2 story, 65 x 135 ft., rein.-con. and brick, at Institution for Feeble Minded, here. $200,000.

O., South Euclid—School and Convent—Sisters of Good Shepherd, East 30th St. and Carnegie Ave., Cleveland, having plans prepared by W. Koehl, archt., 906 Park Bldg., Cleveland, 3 story, brick, steel and concrete, Stop 103, here. $250,000.

O., Washington C. H.—Lodge—B. P. O. E. having plans prepared by T. D. McLaughlin, archts., Savings Bldg., Lima, 2 story, 80 x 165 ft., brick, stone and concrete. $175,000. M. S. Dougherty, chn. building com.

O., Willoughby—Educational—Andrews Institute for Girls having plans prepared by F. C. Warner, archt., 767 Hippodrome Annex, Cleveland, 2 story, brick, steel and concrete. $300,000. S. B. Shankland, secy.

Ind., Indianapolis—Bank — Meyer-Kiser Bank, 136 East Washington St., plans 7 story, 87 x 197 ft. brick, steel and terra cotta, 136 East Washington St. $350,000. Vonnegut, Bohn & Mueller, Indiana Trust Bldg., archts.

Ind., Indianapolis—Home—City plans 4 story, 40 x 196 ft. and 40 x 45 ft. nurses home, brick, Locke and Margaret Sts. $300,000. A. Scherrer & Son, Indiana Trust Bldg., archts.

Ind., Indianapolis — Office — Guarantee Realty Co., c/o Meyer-Kiser Bank, plans 2 story, 72 x 114 ft. brick addition, Monument Circle and Meridian St. $200,000. Vonnegut, Bohn & Mueller, Ind. Trust Bldg., archts.

Ind., Marion—High School—Bd. Educ. plans 2 story, brick. $300,000. Architect not selected.

Mich., Detroit—Mercantile—J. L. Hudson Co., 1201 Farmer St., having plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, 10 story, 40 x 120 ft., brick, steel and stone addition, plain foundation, Woodward Ave.

Mich., Evart—School—Bd. Educ. having plans prepared by J. N. Churchill, archt., Lansing, 3 story, 75 x 220 ft. rein.-con., brick and steel, plain foundation. $150,000.

Mich., Lincoln Park (Detroit P. O.)—Municipal—Village plans 2 story, probably rein.-con., brick and steel. $150,000. Architect not selected.

Mich., Port Huron—School—Bd. Educ. having plans prepared by Van Leyen, Schilling, Keough & Reynolds, archts., 3440 Cass Ave., Detroit, rein.-con., brick, steel and stone, plain foundation, Erie St. $250,000.

Mich., Traverse City—Hospital—Traverse City Hospital having plans prepared by Malsomson, Higginbotham & Palmer, archts., 405 Moffat Bldg., Detroit, 3 story, brick and steel, plain foundation. $150,000.

Ill., Chicago — Apartment — Dubin & Eisenberg, archts., 14 West Washington St., preparing plans and soon takes bids 6 story, 120 x 150 ft., rein.-con., brick and steel, Sheridan Rd. and Lunt Ave., for B. H. Rosenthal, c/o architects. $500,000.

Ill., Chicago—Athletic Club—W. W. Ahlschlager, archt., 60 East Huron St., preparing preliminary plans 12 story, 125 x 180 ft., rein.-con., brick and steel, Lake Shore Dr. near Pearson Ave., $2,000,000. Owners name withheld.

Ill., Chicago—Hotel—Juddson Hotel Co., c/o H. L. Stevens & Co., archts., 30 North Michigan Blvd., having plans prepared 10 story, 100 x 143 ft., rein.-con., brick and steel, Sheridan Rd. near Argyle Ave., $1,250,000.

Ill., Chicago—School—National Kindergarten & Elementary College, 2944 South Michigan Ave., having plans prepared by W. S. Holmes Co., archts., Tussing Bldg., Lansing, Mich., for school, opposite Northwestern University, here. $1,000,000.

Ill., Chicago—Store, Office, etc.—F. D. Chase, Inc., archts., 645 North Michigan Blvd., preparing plans rein.-con., brick and steel, 79th St. near Stony Island Ave. $200,000. Owner's name withheld.

Ill., Chicago—Store, Office and Theatre—Kramer & Schnadig, c/o Newhouse & Bernham, archts., 4630 Prairie Ave., plans 2 story, 125 x 125 ft., rein.-con., brick and steel, 63rd St. and Kedzie Ave. $400,000.

Ill., Oak Park—Church—First Methodist Episcopal Church having plans prepared by Talmadge & Watson, archts., 189 West Madison St., Chicago, 2 story, 200 x 200 ft., rein.-con., brick and steel, Oak Ave. and Superior St. $250,00.

Wis., Green Bay—Club House—Green Bay Columbus Club, (Knights of Columbus), c/o C. K. Bong, chn. building com., Sheridan Bldg., having plans prepared by Foeller, Schober & Stephenson, Nicollet Bldg. and H. W. Carr, Minahan Bldg., associated archts., 3 story, 80 x 140 ft. brick and concrete, plain foundation. $150,000.

Wis., Madison—Church and Auditorium—Dominican Fathers having plans prepared by F. L. Kronenberg, archt., Carroll Blk., 2 story 64 x 100 ft., brick rein-con. and stone, plain foundation. Hollister St. $150,000. J. R. Clark, pastor.

Wis., Madison — Church — St. James Catholic Congregation, St. James Court, having plans prepared by F. L. Kronenberg, archt., Carroll Blk., 2 story, 75 x 180 ft., brick, rein.-con. and steel, plain foundation. $150,000.

Wis., Madison — School — St. Joseph Italian Congregation, c/o A. Simeoni, pastor, 22 South Park St., having plans prepared by F. L. Kronenberg ,archt., Carroll Blk., 2 story, 67 x 168 ft., brick, rein.-con. and stone, plain foundation. $150,000.

Wis., Milton—Dormitories, etc.—Milton College, c/o A. E. Whitford, pres., plans 4 story, rein.-con., steel and brick, plain foundation. $275,000. Architect not selected.

Wis., South Madison (Madison P. O.)—High and Grade School—Bd. Educ. plans 2 story, brick, rein.-con. and tile, plain foundation. $150,000. Architect not selected.

Kan., Coffeyville—Memorial Auditorium—City, c/o C. Potteck, clk., having plans prepared by T. W. Williamson & Co., archts., 312 Central Natl. Bank Bldg., Topeka, 2 story, rein.-con., and brick. $175,000.

S. D., Rapid City—School—Bd. Educ. having plans prepared by Perkins & McWayne, archts., 324 Paulton Blk., Sioux Falls, 2 story, rein.-con., brick, stone and tile. $150,000.

N. D., Fargo—Store, etc.—G. Carufel, Fargo, having plans prepared by J. E. Rosatti, archt., 107½ Bway., 3 story, 100 x 100 ft. rein.-con. and brick store and storage building. $150,000.

Okla., Oklahoma City—Depot—Atchison, Topeka & Santa Fe R. R., Ry. Exch. Bldg., Chicago, plans depot, here. $2,100,000. C. F. W. Felt, ch. engr.

Cal., Palo Alto—Dormitory—University of California having plans prepared by Bakewell & Brown, archts., 251 Kearny St., San Francisco, 2 and 3 story, rein.-con., University Grounds. $450,000. A. E. Roth, comptroller.

Cal., San Mateo—Hotel—F. E. Webb and assocaites, 16 East 41st St., New York City, having sketches made by W. Polk & Co., archts., Hobart Bldg., San Francisco, for hotel, private beach, golf links, yacht harbor, club quarters, etc., will exceed $500,000.

Cal., Taft—School—Taft Union High School Dist., having plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, additions to high school. Immediate building plans include new locker rooms, girls' rest room and garage. By first of year it is proposed to complete machine and auto shop and $198,000 gymnasium, for which largest part of funds will be used.

Ont., London—Office—London Life Insurance Co., 463 Richmond St., receiving competitive plans for 4 story, brick and stone, Dufferin Ave. $500,000. E. E. Reid, Mgr.

Ont., Whitby—Hospital—Provincial Government, Parliament Bldgs., Toronto, having plans prepared by Educ. Dept., Toronto, for hospital, here. $300,000.

H. I., Honolulu—Memorial—Territory of Hawaii having plans prepared by L. P. Hobart, archt., Crocker Bldg., San Francisco, Cal., rein.-con. and terra cotta building, comprising plaza, coliseum, natatorium and temple of music, on Waikiki Beach. $250,000.

BIDS DESIRED

N. Y., New York—Drill Shed—July 27, at office of Mayor, City Hall, drill shed of armory, 142nd and 143rd Sts., between Lenox and 5th Aves., for 15th Infantry. Former bids rejected. Noted June 29.

N. Y., Perry—High School—Aug. 2 by Bd. Educ., Dist. 6, towns of Perry and Castile, at office of T. H. Donnelly, secy., altering and building 2 story, 146 x 150 ft. brick. Gordon & Kaelber, 125 Sibley Bldg., Rochester, archts.; adv. this issue.

N. Y., Wende—Administration, etc.—July 25, by Bd. Supervs. Erie Co., 29 County Hall, Buffalo, administration building, bakery, laundry and other buildings, here. $225,000.

Pa., Phila.—Hotel—July 26 by H. Trumbauer, archt., Land Title Bldg., 16 story, 196 x 230 ft., rein.-con., brick and steel, caisson foundation, 9th and Chestnut Sts., for Benjamin Franklin Hotel Co., c/o architect. $7,000,000.

Pa., Phila.—Office—Thomas, Martin & Kilpatrick, archts., Otis Bldg., receiving bids 8 story, 22 x 153 ft., rein.-con., brick and steel, 21st and Chestnut Sts., for E. Hummel, c/o architects. $200,000.

N. C., Siler City—School—July 26, by School Comrs., brick, $150,000. R. F. Paschal, secy. C. C. Wilson, Palmetto Blk. Bldg., Columbia, archt.

N. C., Southern Pines—School—July 29, by School Com., for school. $150,000. P. P. Pelton, secy. A. Embury, 2nd, 132 Madison Ave., New York City, archt.

N. C., Troy—School—J. S. Edwards, supt. of schools of Montgomery Co., receiving bids brick schools, incl. one 10 room, one 8 room and three 6 room schools.

Tenn., Knoxville—Church—Sept. 1, by J. P. Grant, chn. building com. First Baptist Church, 620 South Gay St., 4 story, 140 x 200 ft., Main St. $300,000. Dougherty & Gardner, Nashville, archts.

O., Cleveland—Commercial and Market—De Lorenzo & Bontempo, archts., Finance Bldg., taking bids and opens same about Aug. 1, 1 story, 80 x 150 ft., brick, steel and concrete, Miles Ave. near East 113th St., for Miles Ave. Market House, c/o Conley-De Graw Co., 1900 Euclid Ave. $150,000. Noted June 29.

O., Grandview Heights (Columbus P. O.)—High School—Aug. 15, by D. S. Freed, clk. Bd. Educ., 2 story, 145 x 173 ft., brick and concrete. $200,000. Former contract declared illegal. Noted July 13.

O., Mt. Sterling—High School—Aug. 10, by E. R. Julian, clk. Bd. Educ., 2 story, 66 x 133 ft. and 120 x 133 ft., brick and concrete. $150,000. J. Q. Adams, Southern Hotel, Columbus, archt.

Ill., Chicago—Field House—South Park Comrs., 57th St. and Cottage Grove Ave., receiving bids 1 and 2 story, 185 x 255 ft., rein.-con. brick and steel, field house, gymnasium and recreation building, in Calumet Park. $150,000. L. White engr., c/o owner. Noted Feb. 16.

Wis., Milwaukee—Convent—See "Miscellaneous."

Wis., Plymouth—Hotel—E. A. Juul, archt., Imig Bldg., Sheboygan, taking bids 3 story, 80 x 140 ft., brick, rein.-con. and steel, plain foundation, for J. E. Curtis, Plymouth. $150,000.

Cal., Oakland—High School—Aug. 14. by Bd. Educ., 2 story, brick, on block bounded by 26th, 28th, Myrtle and Linden Sts. $385,000. C. W. Dickey, 2149 Bway., archt. Noted May 4.

Cal., Taft—School—Aug. 1, by Trustees Conley School Dist., 2 story, brick. $250,000. Trewhitt-Shields, Rowell Bldg., Fresno, archts. Noted April 20.

BIDS RECEIVED

O., Dayton—High School—Bd. Educ. opened bids July 13, Roosevelt High School, 3 story, rein.-con. and brick, plain foundation, West Side, general contract from Danis-Hunt Constr. Co., 907 Schwind Bldg., $1,140,000, J. E. Lowes Co., 509 West 2nd St., $1,155,000, Drummond-Miller Co., 4500 Euclid Ave., Cleveland, $1,202,000; heating and ventilating apparatus, from Van Dyke Heating & Plumbing Co., 1111 Walnut St., Des Moines, Ia., $249,000. Noted June 29.

CONTRACTS AWARDED

Conn., Bridgeport—Restaurant—Waldorf Lunch Co., 169 High St., Boston, remodeling 4 story, brick and steel, Main and Middle Sts., here, to T. J. Pardy Constr. Co., 1387 Seaview Ave. Archts. est. $150,000. Noted May 4.

N. Y., Brooklyn—Apartment and Store—P. Ritzheimer, 122 Amity St., 5 story, brick, steel and stone, plain foundation, Livingston St., to W. L. and G. H. O'Shea, 29 Bway., New York. Archts. est. $250,000.

N. Y., Brooklyn—High School—Bd. Educ., 500 Park Ave., New York, New Utrecht High School, 79th and 80th Sts., here, to Werner-Disken Co., 50 Court St., $1,336,897. Noted July 6.

N. Y., Cornwall-on-Hudson—School—Bd. Educ., brick and stone, plain foundation, to

Buildings (Continued)

Cornwall Industrial Corp., Cornwall. Archts. est. $150,000. Noted June 8.

N. Y., Elmira—Hospital—St. Josephs Hospital, 555 East Market St, general contract 5 story, 80 x 140 ft., brick annex, to P. A. Zimmerman Co., 18 East 41st St., New York, $211,000. Noted July 13.

N. Y., New York—Bank and Office—L. A. Abramson, archt. and engr., 46 West 46th St., 5 story, 50 x 85 ft., brick, steel and stone, plain foundation, 1765 Madison Ave., to Fleischmann Constr. Co., 531 7th Ave., for Bank of United States, 5th and 32nd St. Archts. est. $250,000. Noted June 29

N. Y., New York—Schools—Bd. Educ., 500 Park Ave., additions to and altering P. S. 57, East 114th St. near 3rd Ave., to Frymier & Hanna, 25 West 45th St., $264,-539; P. S. 130, 2nd portion, Hester and Baxter Sts., to Concord Constr. Co., 476 Seneca St., Brooklyn, $218,800. Noted July 13.

N. Y., Riverhead—High School—Bd. Educ., brick, steel and stone, plain foundation, to Johnson & Miller, Yonkers. Archts. est. $250,000. Noted May 25.

N. J., Bridgeton—High School—Bd. Educ., 2 story, 61 x 194 ft., to J. S. Rogers & Co., Drexel Bldg., Phila.

N. J., Jersey City—Apartment—D. Woldstein, c/o G. and E. Blum, archt. and engr., 505 5th Ave., New York, 5 story, brick, steel and stone, plain foundation, Fairmount St., here, by day labor. $200,000.

N. J., Montclair—School—Bd. Educ., brick, steel and stone addition, plain foundation, to J. F. and L. Carlson, Walnut St. Archts. est. $150,000. Noted June 22.

Pa., Bryn Mawr—School—Bd. Educ., 2 story, 107 x 162 ft., school, to J. S. Rogers & Co., Drexel Bldg., Phila., $168,600.

Pa., Phila.—Office—S. Lavenson, 237 North 6th St., 8 story, 80 x 102 ft., rein.-con., brick and steel, 8th and Appletree Sts., to Kober Constr. Co., 34 South 17th St. Archts. est. $500,000.

S. C., Honea Path—Housing—Chiquola Mfg. Co., 132 houses, to Harper Lumber Co., Honea Path.

Tenn., Nashville—Bank and Office—Caldwell & Co., 205 Union St., 8 story, brick, steel and concrete, to Foster & Creighton Co., 4th and 1st Natl. Bank Bldg., $350,000. Noted March 30.

O., Cleveland—Bank and Office—Pearl St. Savings & Trust Co., 3094 West 35th St., masonry contract 2 story, 55 x 120 ft., brick, steel and concrete, Pearl and Broadview Rds., to J. Grant & Son, 4500 Euclid Ave. Archts. est. $200,000. Noted May 18.

O., Cleveland—Church—W. C. Jansen, archt., Electric Bldg., 1 story, 100 x 200 ft., brick, steel, concrete and stone, plain foundation, East 109th St. and St. Clair Ave., to Bolton Pratt Constr. Co., Columbia Bldg., for St. Aloysius Roman Catholic Church, 10932 St. Clair Ave. Archts. est. $300,000. Noted July 6.

O., Cleveland—High School—Bd. of Educ., East 6th St., and Rockwell Ave., general contract 3 story, brick and steel addition, plain foundation, West 93rd St. and Willard Ave., to Drumond-Miller Co., 4500 Euclid Ave., $652,000; heating and ventilating apparatus, to Warden & Leese, Prospect Ave., $130,697. Noted July 13.

Ind., Indianapolis — Hospital — James Whitcomb Riley Memorial Hospital Assn., 904 Hume-Mansur Bldg., 3 story, 103 x 321 ft. brick, West Michigan St., to State Constr. Co., Pythian Bldg., $311,000. Archts. est. $350,000. Noted March 17.

Ind., Richmond—High School—School Bd. Trustees, 2 story, 103 x 180 ft. brick and hollow tile, to Yeager & Sons Constr. Co., Richmond, $162,827.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., 2 story, rein.-con. and brick, plain foundation, Brooklyn Ave., to F. H. Goddard, 2130 Franklin St., $295,500. Noted July 13.

Mich., Detroit—Theatre and Office—Northwestern Building Corp., 7380 Grand River Ave., 2 story rein.-con., steel and brick, plain foundation, Grand River Ave., to J. Finn & Sons Co., 708 Amsterdam Ave. Archts. est. $2,000,000.

Wis., Madison—Arcade Store—Madison Realty Co., 1 East Main St., 2 story, 88 x 101 ft., brick, rein.-con. and steel, plain foundation, Mifflin St., to J. H. Findorff Son Co., 601 West Wilson St. Engrs. est. $150,000.

Wis., Madison—Store—The University Co-operative, 506 State St., general contract 3 story, 30 x 180 ft., brick, rein.-con. and stone, plain foundation, State St., to Newell Bros. Co., 1315 Chandler St. Engrs. est. $150,000.

Wis., Phelps—High and Grade School—Bd. Educ., general contract 2 story, 75 x 150 ft., brick, rein.-con. and steel, plain foundation, to Krasin Bros. Co., Marshfield. Engrs. est. $150,000. Noted June 8.

Wis., Pulaski—School—Bd. Educ. general contract 2 story, 70 x 120 ft., high and grade school, brick, rein.-con. and stone, plain foundation, to F. Nemitz, Main St., Denmark. Engrs. est. $150,000. Noted June 22.

Wis., Schofield—High School—Bd. Educ. general contract, 2 story, 70 x 95 ft., brick, rein.-con. and steel, plain foundation, to Otrich-Shropshire, Stevens Point. Engrs. est. $150,000.

Minn., Grand Rapids—High School—Bd. Educ., general contract 3 story, 67 x 183 ft. rein.-con., brick and tile, to Pfeffer Constr. Co., Torrey Bldg., Duluth, $154,990. Noted June 22.

S. D., Sioux Falls—School—Bd. Educ., general contract 3 story, rein.-con., brick, stone and tile, to Sioux Falls Constr. Co., Boyce Greeley Bldg., $100,535. Noted June 15.

N. D., Grafton—Dormitory—State Bd. Administration, Bismarck, general contract 4 story, rein.-con., brick, tile and stone, at State Institution for Feeble Minded, here, to Redlinger & Hansen, Wahpeton, $88,000. Noted June 15.

Col., Denver—Office—T. M. Patterson Estate, Patterson Bldg., general contract 10 story, 100 x 125 ft., 17th and Welton Sts., to A. Olson, Bank Blk., $334,000. Engrs. est. $650,000. Noted April 6.

DAM—CINCINNATI, OHIO

Bids were opened by U. S. Engr. Office, Cincinnati, June 19, for constructing Dam No. 32, Ohio River, near Vanceburg, Ky., from (1) National Contg. Co., Citizens Bank Bldg., Evansville, Ind., and (2) Dravo Constr. Co., Diamond Bldg., Pittsburgh (awarded contract) (this contractor furnished own plans and quantities). The unit bids were as follows:

(1)

NAVIGABLE PASS

700 lin.ft. cofferdam	$300.00
25,900 cu.yd. common excavation	.75
2,050 cu.yd. fill	1.00
500 cu.yd. bedding gravel or broken stone.	2.00
1,406 cu.yd. riprap	8.00
7,980 lin.ft. round piles, timber	1.00
371,000 lb. sheet piles, steel	.08
450,320 ft. b.m. common timber	125.00
129,230 ft. b.m. deck timber	125.00
11,050 ft. b.m. oak timber	200.00
5,095 cu.yd. concrete	15.00
44,771 lb. structural steel	.12
61,350 lb. reinforcing rods	.08
5,720 lb. forgings (including wrought iron)	.20
52,648 lb. bolts, etc.	.10
148,858 lb. iron castings	.10
63,572 lb. steel castings	.25
700 lin.ft. 4 in. pipe	4.00
175 placing movable parts—wickets, including horses and props	10.00
Extended total	$484,480

WEIRS

660 lin.ft. cofferdam	$300.00
38,234 cu.yd. common excavation	.75
1,000 cu.yd. fill	1.00
3,850 cu.yd. riprap	8.00
5,440 lin.ft. round piles, timber	1.00
258,400 lb. sheet piles, steel	.08
144,260 ft. b.m. common timber	125.00
62,770 ft. b.m. deck timber	125.00
50,867 ft. b.m. oak timber	200.00
19,188 cu.yd. concrete	15.00
638,522 lb. structural steel	.12
24,901 lb. forgings (including wrought iron)	.20
39,104 lb. bolts, etc.	.10
60,700 lb. iron castings.	.10
104,968 lb. steel castings	.25
1,418 lb. bronze	1.50
464 lin.ft. 4 in. pipe	4.00
622 lin.ft. 3 in. pipe	5.00
25 placing movable parts — wickets, including horses and props	10.00
Extended total	$733,560
Extended grand total	$1,218,040

(2)

1,360 ft. caisson	$300.00
40,000 cu.yd excavation	3.00
61,917 ft. b.m. oak timber	400.00
39,258 cu.yd. concrete	12.80
683,293 lb. structural steel	.13
6,000 lb. reinforcing steel	.05
30,621 lb. forgings	.15
30,000 lb. bolts	.11
209,302 lb. iron castings	.13
168,270 lb. steel castings	.20
1,418 lb. bronze	.80
1,164 lin.ft. 4 in. pipe	5.50
622 lin.ft. 3 in. pipe	3.50
200 wickets	10.00
Extended total	$1,224,867

Ont., London—Monastery—Sisters of the Precious Blood, 4 story, 125 x 200 ft. brick, by day labor under direction of B. Blonde 14 Cornhill St., Chatham. $150,000. Pennington & Boyd, LaSelle Bldg., Windsor, archts.

Cuba, Havana — Yacht Club — Havana Yacht Club let contract to Purdy & Henderson, 45 East 17th St., New York City. Archts. est. $500,000.

Federal Government Work

PROPOSED WORK

Me., Bar Harbor—Stone—U. S. Engineer, Custom House, Boston, Mass., rejected bids opened June 22, furnishing and placing stone, in breakwater, near here. Noted May 25.

Tex., Gilmer—Post Office—Treas. Dept., Wash., D. C., received no bids July 11, construction, complete incl. mechanical equipment, U. S. Post Office, here. Noted June 15.

BIDS DESIRED

R. I., Providence—Rock Removal—Aug. 15 at Office U. S. Engineer, Providence, rock removal in Stamford Harbor, Conn.; adv. this issue.

N. Y., New York—Dredging—Aug. 19, by U. S. Engineer, 616 Army Bldg., dredging in Passaic River, New Jersey; adv. this issue.

Del., Wilmington—Excavation—Aug. 15, at Office U. S. Engineer, Wilmington, excavating Inland Waterway; adv. this issue.

Md., Perryville—Refrigerating Plants—Sept. 1, at Office Director, U. S. Veterans Bureau, Wash., D. C., 2 complete York 100-ton refrigerating plants in U. S. Veterans Hospital 42, here; adv. this issue.

Va., Hampton Roads—Equipment—Spec. 4667—July 26, By Bureau Yards & Docks, Navy Dept., Wash., D. C., coal and ash handling equipment, here. Noted July 13.

Va., Hampton Roads—Heating Plant—Spec. 4629—July 26, by Bureau Yards & Docks, Navy Dept., Wash., D. C., heating plant building here. Noted July 13.

Va., Norfolk — Mechanical Equipment — July 31, by Treas. Dept., Wash., D. C., mechanical equipment for east wing of U. S. Veterans' Hospital, here.

La., New Orleans—Stone—Aug. 15, by U. S. Engineer, 329 Customhouse, furnishing and delivering stone for Southwest Pass, Head of Passes and South Pass, Mississippi River; adv. this issue.

Minn., Duluth—Scow—Aug. 14 at Office U. S. Engineer, Duluth, steel derrick scow; adv. this issue.

Neb., North Platte—Piping—Aug. 11 by Treas. Dept., Wash., D. C., water piping, here.

Tex., Eagle Pass—Sewer—July 24 by Treas. Dept., Wash., D. C., sanitary sewer for U. S. Post Office, here. J. A. Wetmore, acting superv. archt.

Tex., Galveston—Dredging—Aug. 15 at Office U. S. Engineer, Galveston, dredging Houston Ship Channel; adv. this issue.

Wyo., Ft. MacKenzie—Tank—Aug. 10, by Treas. Dept., Wash., D. C., for tank, here.

Ore., Portland—Catamarans—Aug. 21, at Office U. S. Engineer, 2nd Dist., for 80 steel pontoon catamarans; adv. this issue.

H. T. Pearl Harbor—Quaywalls, etc.—Spec. 4591—Aug 23 by Bureau Yards & Docks, Navy Dept., Wash., D. C., 68 x 400 ft. and 68 x 178 ft., rein.-con. quaywalls, 80 x 364 ft. pier, 37 x 45 ft. bulkhead, etc. Noted June 22.

BIDS RECEIVED

Fla., Apalachicola—Post Office, etc.—Treas. Dept., Wash., D. C., opened bids July 10, for U. S. Post Office and Custom House, here, from Devault & Deitrick, Canton, O., $59,817; Hodgson & Jones, 1st Natl. Bank Bldg., Montgomery, Ala., $61,-980; O. P. Woodcock, 403 Main St., Jacksonville, Fla., $65,995. Noted June 15.

Mich., Detroit—Gate Engines—U. S. Engineer, 337 Federal Bldg., furnishing and installing 6 operating engines for gates of Poe Lock, at Saulte Ste. Marie, incl. motors, controllers, resistances, etc., from Green Bay Drydock Co., Green Bay, Wis., $20,410; Ellicott Machine Corp., Bush and Severn Sts., Baltimore, Md., $23,469; J. & J. B. Millholland Co., 714 5th Ave., Pittsburgh, $23,600. Noted June 8.

Minn., Albert Lea—Extension to Workroom etc.—Treas. Dept., Wash., D. C., extension to workroom and mailing vestibule, at U. S. Post Office, here, from W. D. Lovell, 1415 8th St., S. E., Minneapolis, $11,400; Pearce Bros, 220 West 42nd St., New York, $11,500; Tatager Constr. Co., Albert Lea, $12,468. Noted June 29.

Federal Government Work (Continued)

CONTRACTS AWARDED

N. Y., Jamestown—Extension to Workroom, etc.—Treas. Dept., Wash., D. C., extension to workroom and mailing vestibule, U. S. Post Office, here, to G. E. Wright, Inc., 1454 Monadnock Blk., Chicago, $19,-840 (4 months). Noted June 1.

Pa., Phila.—Fuel Oil—U. S. Engineer, 815 Witherspoon lBdg., fuel oil for floating plant, here, to Gulf Refining Co., Widener Bldg., $41,350.

Md., Edgewood—Remodeling—Constructing Quartermaster, Aberdeen Proving Ground, converting buildings 438, A. B., and C into officers quarters, here, to Newport Contg. and Eng. Co., Law Bldg., Newport News, Va., $81,250. Noted June 22.

D. C., Wash.—Guard House—Constructing Quartermaster, Munitions Bldg., guard house at Walter Reed General Hospital, here, to Boyle-Robertson Constr. Co., Evans Bldg., $19,950. Noted July 6.

Ia., Vinton—Post Office—Treas. Dept., Wash., D. C., for U. S. Post Office, here, to W. D. Lovell, 1415 8th St., S. E., Minneapolis, Minn., $56,380 (12 months). Noted June 8.

Mo., Jefferson Barracks — Mechanical Equipment—Treas. Dept., Wash., D. C., mechanical equipment for U. S. Veterans' Hospital, here, to S. Faith & Co., 2427-33 Pennsylvania Ave., Phila., $311,000 (8 months).

Cal., Los Angeles—Aerodrome—Constructing Quartermaster, aerodrome to Union Constr. Co., Oakland, $23,000.

DAM—CINCINNATI, OHIO

Bids were opened by U. S. Engr. Office, Cincinnati, June 19, for constructing Dam No. 34, Ohio River, near Chilo, from (A) National Contg. Co., Citizens Bank Bldg., Evansville, Ind. (awarded contract); (B) Dravo Constr. Co., Diamond Bldg., Pittsburgh. The unit bids were as follows:

	A	B
1,555.5 lin.ft. cofferdam	$250.00	$310.00
62,006 cu.yd. common excavation	.75	1.35
4,301 cu.yd. fill	1.00	1.00
28,604 cu.yd. riprap	7.00	9.00
71,082 lin.ft. round piles, timber	.80	1.00
41,080 ft. b.m. sheet piles, timber	125.00	200.00
1,014,135 lb. sheet piles, steel	.07	.055
956,145 lb. sheet piles, steel, for driving only	.05	.01
712,800 ft. b.m. common timber	100.00	150.00
310,500 ft. b.m. deck timber	100.00	160.00
59,030 ft. b.m. oak timber	200.00	450.00
18,617 cu.yd. concrete	15.00	15.00
683,294 lb. structural steel	.12	.14
90,454 lb. reinforcing rods	.08	.06
30,621 lb. forgings (including wrought iron)	.20	.16
127,189 lb. bolts, etc.	.10	.10
209,721 lb. iron castings	.10	.14
186,270 lb. steel castings	.25	.20
1,418 lb. bronze	1.50	.80
1,134 lin.ft. 4 in. pipe	4.00	6.00
622 lin.ft. 3 in. pipe	5.00	4.00
200 placing wickets (including horses and props)	10.00	10.00
Extended totals	$1,385,147	$1,627,464
Alternate bid for flexible concrete apron below dam:		
2,830 cu.yd. apron, flexible concrete	$20.00	$21.00
86,500 lb. steel for flexible concrete apron	.10	.09
Extended totals	$65,250	$67,215

Miscellaneous

PROPOSED WORK

Mar'ne Tower, Buffalo, N. Y. — Amer. Elevator & Warehouse Co., Buffalo River, plans large marine tower. $40,000. Private plans.

Comfort Station—Ellwood City, Pa.—See "Sewers."

Bathing Beach, etc.—Chagrin Falls, O.—See "Dams."

Retaining Walls, etc.—Cleveland, O.—Bd. Educ., East 6th St. and Rockwell Ave., having plans prepared by W. R. McCornack, archt., East 6th St. and Rockwell Ave., retaining walls and iron fences at Dawning, Hough and Marion Schools. $40,000.

Generating Unit and Transmission Line—Menominee, Mich.—Wisconsin Pub. Serv. Corp., 559 Marshall St., Milwaukee, having plans prepared generating unit and transmission line, here, Mead & Seastone, State St., Madison, Wis., engrs.

Cement Mixing Machine—Madison, Wis.—Making plans for cement mixing machine to be used by city street department. C. E. Parker, city engr.

Pipe Line—Casper, Wyo.—Mammoth Oil Co., Casper, making preliminary surveys for 800 mi. 6 or 8 in. pipe line from Teapot Dome to Missouri River.

Pipe—Eureka, Cal.—J. Griffith, supt. Pub. Wks., 524 D St., soon receives bids furnishing 12,000 ft. 2 in. standard black pipe, random lengths.

BIDS DESIRED

Drainage Pumps, Etc.—New York, N. Y.—August 1, by Transit Comn., 49 Lafayette St., installing drainage pumps in subway under 14th St., Boro of Manhattan; also Metropolitan and Bushwich Aves., Boro of Brooklyn; installing frogs, switches, tracks and pumping posts in yard near Jerome Ave. and Moshlolu Parkway, Boro of Bronx, Jerome Ave. line. Route 16; additional approach track to Lenox Ave. and 148th St. yard; making changes in steel work at easterly approach to Queensboro Plaza Station, Routes 36 and 37, Sect. 1, Boro of Queens, Agreement "BZ." G. McAneny, chn.

Lumber—Niagara Falls, N. Y.—E. J. Fort, city mgr., receiving bids 111,000 ft. white oak lumber to replank Pierce Ave. bridge. $8,120. W. B. Bennett, Convention Hall, city engr.

Dumping Platform and Ramp — New York, N. Y.—July 27, by J. H. Delaney, comr. Docks, Pier "A," foot of Battery Pl., North River, building superstructure on pier at East 35th St. consisting of rein.-con. dumping platform and ramp; contr. 1773. Former bids rejected. Noted June 15.

Paving Blocks—Farrell, Pa.—Aug. 1, by J. W. Kozar, boro. secy., 125,000 vitr. brick paving blocks.

Pipe, etc.—Phila., Pa.—See "Waterworks."

Transmission Line, etc.—Black Creek, N. C.—July 27 by G. G. Smith, town clk., 4 mi. 6,600 volt, three phase transmission line, two sub-stations and local distribution system, incl. street lights. H. L. Allen, Black Creek, engr.

Gravel Pit Equipment—Delafield, Wis.—Consolidated Materials Co., 301 Caswell Blk., Milwaukee, taking bids for washing plant, 25-30 hp. crusher, pump, screen, bucket conveyor, belt conveyor, steam engine or electric motor power. Private plans. Noted May 4, under Slinger.

Basement—Milwaukee, Wis.—July 24, by Brust & Philipp, archts., 405 Bway. (basement), for 4 story, 150 x 150 ft., brick and concrete addition, plain foundation, to St. Josephs Convent, 575 Layton Blvd. $200,000.

Structural Steel—Milwaukee, Wis.—See "Industrial Works."

Paving Materials—St. Paul, Minn.—July 24, (change of date) by H. W. Austin, city purch. agt., materials for paving Hudson Rd. from Point Douglas Rd. to east city limits, 8,792 bbl. portland cement, 5,126 cu.yd. crushed stone or gravel, 3,888 cu.yd. concrete sand, 32,745 lb. $\frac{3}{8}$ in. round reinforcing steel bars, 15,295 lb. $\frac{5}{8}$ in. round reinforcing steel bars etc.; Grand Ave. from Milton St. to Cretin Ave., 41,134 sq.yd. $3\frac{1}{2}$ in. Southern pine creosoted wood blocks, 7,814 bbl. portland cement, 3,429 cu.yd. concrete sand, 6,218 cu.yd. crushed stone or gravel, 1,932 cu.-yd. screened sand, 386 cu.yd. crushed stone for curb, 493,620 lb. pitch filler, etc.; Grand Ave. from Oakland Ave. to west line of Milton St., 13,570 sq.yd. Southern pine creosoted wood blocks, 2,422 bbl. portland cement, 1,136 cu.yd. concrete sand, 1,885 cu.yd. crushed stone or gravel, 162,840 lb. pitch filler, etc. O. Claussen, city engr. Noted July 13.

Scarifier Attachment—St. Paul, Minn.—Aug. 7, by G. Reis, aud. Ramsey Co., 1 scarifier attachment for 10-ton A. W. road roller. $1,500.

Structural Steel, etc.—St. Paul, Minn.—July 24, by H. W. Austin, city purch. agt., 12,688 lb. structural steel, 5,020 lb. miscellaneous steel and iron castings, 1,035 ton c.i. pipe, also for cut stone, dowel pins, expansion bolts and sheet lead flashings, for Water Dept. O. Claussen, city engr.

Transformers, etc.—San Francisco, Cal.—Aug. 9, by Bd. Pub. Wks., transformers, switchboards and accessory equipment for Moccassin Creek Power Plant, Hetch Hetchy Project, Contr. 81. M. M. O'Shaughnessy, city engr.

Transmission Line—Turlock, Cal.—Aug. 3, by Turlock Irrigation Dist., 28 mi. of 66,000 volt transmission line, bids to be received as follows: (1) lump sum bids for completed line—contractor to furnish towers and materials (2) contractor to furnish labor only—district to furnish materials (3) for materials—about 200 steel towers, 170 mi. copper or steel reinforced aluminum wire, about 6,000 suspension type insulators with fittings, switchboard panel lightning arresters and oil circuit breaker. R. V. Meikle, ch. engr.

BIDS RECEIVED

Turbines, etc.—Cohoes, N. Y.—C. L. Cadle, supt. Pub. Wks., Albany, opened bids July 10, furnishing and delivering 2 hydraulic turbines with governor equipment and extra parts for proposed power house at Crescent Dam, here, Contr A-1, from S. Morgan Smith Co., York, Pa., $92,957, W. Cramp & Sons Ship & Engine Building Co., Beach and Ball Sts., Phila., Pa., $124,000, Wellman-Seaver-Morgan Co., 7000 Central Ave., S. E., Cleveland, O., $126,000; water wheel driven generators and other electric equipment, Contr. A-2, from General Electric Co., River Rd., Schenectady, 90 r.p.m.—1,800,000 W. R. 2, $100,694, 2,666,666 W. R. 2, $105,824, 2,000,000 W. R. 2, $102,420; 105.9 R.P.M.—1,800,000 W. R. 2, $100,200. Noted June 29.

Asphalt, Gravel, etc.—Phila., Pa.—F. H. Caven, dir. pub. wks. opened bids July 11, furnishing (1) 13,000 ton aspnalt surface and binder course, (2) 7,500 ton gravel (3) 3,000 bbl. portland cement (4) 8,500 ton crushed stone, from Barber Asphalt Paving Co., Land Ttile Bldg., (1) $47,653; Union Paving Co., 34th and Spruce Sts., (1) $44,740; Eastern Paving Co., Colonial Trust Bldg., (1) $47,960; De Frain Sand Co., Finance Bldg., (2) $12,208; West Jersey Sand and Supply Co., Beach and Marlboro Sts., (2) $12,208 (3) $8,250; Birdsboro Stone Co., Birdsboro, (4) $25,-743; E. T. Bennis, South and 5th Sts., (4) $22,649. Noted July 6.

CONTRACTS AWARDED

Ramp, etc.—Brooklyn, N. Y.—J. H. Delaney, comr. Docks, Pier "A" North River, New York, building ramp and dumping board at foot of West 23rd St., Coney Island Creek and completing dredging, here, to Riverside Contg. Co., 164 Montague St., $27,667. Noted July 6.

Miscellaneous Construction, etc.—New York, N. Y.—Transit Comn., 49 Lafayette St., miscellaneous construction and station finish for Rapid Transit Railroads in Boros. of Manhattan, Bronx, Brooklyn and Queens, Agreement "BV," to E. Balaban, 51 East 42nd St., $10,835. Noted July 6.

Structural Steel—New York, N. Y.—Bd. Purch., Municipal Bldg., furnishing and delivering structural steel to Dept. Plant & Structures, to Amer. Bridge Co., 30 Church St., $32,982. Noted July 6.

Pier Building—Phila., Pa.—F. H. Caven, dir. pub. wks., 1 story, pier building, Allegheny Ave. and Delaware River, also improving and enlarging Allegheny Wharf 127, to Simpson, Brown & Co., 90 West St., New York, $67,779. Engrs. est. $100,000. Noted July 6.

Dump Truck, etc.—Akron, O.—B. J. Hill, city purch. agt. one 5 ton dump truck, to White Motor Sales Co., 75 North Union St., $5,843 minus $1,000 for old truck; 1 car of pig lead, to W. M. Pattison Supply Co., 777 Rockwell Ave., Cleveland, $5.78 per cwt. Noted June 29.

Gas Lines—Youngstown, O.—East Ohio Gas Co., Boardman and Champion Sts., will lay 15 mi. new gas lines throughout various parts of city, by day labor. L. P. Voelkle, mgr.

Gas Line—Thermopolis, Wyo.—Thermopolis Gas Co., 22 mi. 6 in. gas line, plain end joints, dresser couplings, also various gathering lines 3-6 in., from Golden Eagle Dome to Thermopolis, to Hope Eng. Co., Mt. Vernon, O. Noted April 13.

SEARCHLIGHT SECTION
OFFICIAL PROPOSALS

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Bids: Aug. 4.

Bridge Superstructure, Machinery and Electrical Equipment

Seattle, Wash.

Sealed proposals will be received by the Board of Public Works of the City of Seattle, up to 10 o'clock a.m., Friday, August 4th, 1922, in room 234, County-City Building, for the fabrication and erection of the Super-structure, Machinery and Electrical Equipment of a Steel Bascule Bridge and two Side Spans over the West Waterway at West Spokane Street, under authority of Ordinance No. 43397.

The structure will comprise a double-leaf bascule span 288 feet center to center of trunnions, 2 approach spans each about 140 feet long and a steel girder span about 136 feet long. The width of the bascule span will be 45 feet center to center of trusses and of the side spans 52 feet center to center of trusses, and of the girder span about 40 feet.

No proposal will be considered except as same is made strictly in conformity with the advertisement therefor and upon the forms of proposals furnished by the Board of Public Works, bound together with the specifications, general clauses and form of contract which must be submitted unbroken and unaltered in every particular.

This improvement shall be made in accordance with the respective plans and specifications now on file in the offices of the Secretary of the Board of Public Works and the City Engineer, respectively.

The successful bidder will be required to file with the City Comptroller a bond in the sum specified in the specifications.

Each bid must be accompanied by money, a satisfactory surety company bid bond approved by the Mayor and City Comptroller as to sufficiency and the Corporation Counsel as to form, or a certified check payable to the order of the City Comptroller of the City of Seattle for a sum not less than five (5) per cent of the total amount of bid, and no bid will be considered unless so accompanied.

A deposit of Ten Dollars ($10.00) will be required for each set of plans and specifications, which will be returned upon return of the plans in good order.

Special attention of bidders is called to the State Law and City Charter regarding the number of hours constituting a day's work, minimum wage scale, American citizenship and heads of families.

The Board of Public Works reserves the right to reject any or all bids.

By order of the Board of Public Works.
C. B. BAGLEY,
Secretary.

First publication June 20, 1922.

Bids: Aug. 12.

Drainage Work

Kokomo, Ind.

Bids will be received by me for the construction of an improvement of Kokomo Creek by dredging upon petition of George W. Charles and others at my office in Kokomo, Indiana, on August 12, 1922, work to be completed by January 1, 1924.

ELLSWORTH HUNT,
County Surveyor.
Howard County, Indiana.
B. C. MOON, Kokomo, Indiana,
Attorney for Petitioners.

OFFICIAL PROPOSALS

Bids: Aug. 14.

Drainage Work

Benton, Mo.

Sealed proposals for the construction of about two hundred sixty-nine thousand three hundred cubic yards of earth excavation from the existing ditch and the new ditches to be dug in Drainage District No. 15 of Scott County, Missouri, will be received by the County Court of Scott County, Missouri, at the Court House of said County at Benton, Missouri, until one o'clock (1:00) P.M., August 14, 1922. This work consists of new work and clean-out work with very little clearing, and through an improved community, with bottom width of ditch ranging from fourteen to twenty feet. Bidders will be required to state specifically:

(1) Type and manufacture of equipment to be installed.
(2) Whether new or old equipment will be installed.
(3) Capacity of dipper, bucket and cram.
(4) Length of boom.

This work is suitable for drag line or floating dredge.

The right is reserved to reject any and all bids and to waive informalities in the notices and bids when the bids are received.

No proposals will be considered unless accompanied by certified check for $1,000.00 or a proposal bond. The bidder, or bidders, to whom awards are made will be required to enter into written contracts with the District in the form approved by the District, with good and approved security for the full amount of the contract, using the form of bond approved by the District, within fifteen days after notified of his or its proposal.

Payment for the work will be made in cash.

All requests for information should be addressed to C. E. Swank, Engineer, Charleston, Missouri. Plans and specifications of the work may be seen in the office of the County Clerk at Benton, Missouri, and copies of same may be obtained from the District Engineer for a deposit of $10.00.

(Signed)
GEO. W. PEARMAN,
County Clerk of Scott County,
Missouri, Benton, Missouri.
RAY B. LUCAS, Attorney,
Benton, Mo.
C. E. SWANK, Engineer,
Charleston, Mo.

Bids: July 24.

Grading, Curbing, etc.

Columbia, Mo.

SEALED PROPOSALS will be received by the undersigned City Clerk of the City of Columbia, Boone County, Missouri, until four o'clock p.m., the 24th day of July, 1922, for the grading, curbing and guttering and paving with Kentucky Rock Asphalt of five streets in said city, according to the plans and specifications on file with the undersigned. Approximately 5,700 lin.ft. curb and gutter, 10,500 sq.yd. of paving. For further information address

JOHN S. BICKNELL, City Clerk.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Hydro-Electric Project

Dotham, Ala.

Sealed proposals will be received by the Mayor and City Council of the City of Dothan, Alabama, until 2 o'clock p.m., Tuesday, August 15th, 1922, for constructing a Hydro-Electric Project with appurtenances, and furnishing materials and equipment, at High Bluff on the Choctawhatchee River about eight (8) miles from Hartford, Ala., in sections 9 and 4 of township 2N, Range 23E, Geneva County, Alabama. The work consists of the construction of an earth dam, a concrete spillway, abutments and power house, and the furnishing and placing of machinery.

The principal approximate quantities involved are the following:

- 51,000 cu.yds. of excavation.
- 380,000 cu.yds. of embankment.
- 18,500 cu.yds. of concrete of different classes.
- 1,900,000 pounds of reinforcing steel.
- 354,000 pounds of structural steel work.

Turbines, generators, transformers and auxiliary power house equipment for a present installation of approximately 3,000 bhp. capacity in two units.

A transmission line twenty-one and one-half (21½) miles long at 44,000 volts pressure.

Plans and specifications are on file at the office of the City Clerk at Dothan, Alabama, and at the office of The Ludlow Engineers at Winston-Salem, N. C., where they may be examined by prospective bidders.

Copies of the plans covering the construction details of this project and two copies of the specifications attached to the form of proposal and contract will be furnished by The Ludlow Engineers, Winston-Salem, N. C., upon application by prospective bidders accompanied by a check for twenty-five ($25.00) dollars to cover the cost, or, separate prints, and extra copies of specifications and form of proposal, etc., at one ($1.00) dollar each.

Each bid must be accompanied by a certified check for approximately five (5%) per cent of the bid.

Proposals will be received at the City Hall, Dothan, Alabama, and opened publicly wih the right reserved to accept any bid or to reject any or all bids as the best interests of the City may appear.

Plans and supervision by THE LUDLOW ENGINEERS, INC. Winston-Salem, N. C.
E. O. JONES, Mayor.
R. W. LISENBY, City Clerk.

Bids: July 31.

Paving Brick

Washington, Pa.

Sealed proposals will be received by the Town Council of the Borough of Washington, Penna., at the Council Chamber until 7:30 p.m., July 31st, 1922, for the furnishing of about seven hundred thousand (700,000) paving brick f.o.b. Washington, Pa.

Each bid must be accompanied by a certified check in the amount of five per cent (5 per cent) of the contract price.

Plans and specifications may be obtained at the office of the Borough Engineer, and the right is reserved to reject any or all bids.

J. F. CURRAN,
President of Council.
JOHN GRIFFITHS,
Secretary of Council.

OFFICIAL PROPOSALS

Bids: Aug. 10.

Highway Route No. 6, Section No. 14

Woodbury, N. J.

NOTICE IS HEREBY GIVEN that sealed bids will be received by the County of Gloucester for the construction of State Highway Route No. 6, Section No. 14, in the city of Woodbury, estimated amount of reinforced cement concrete pavement is 19,373 square yards and furnishing materials necessary and laying 3,575 lineal feet of double street railway track.

Work is to be performed under County Reimbursement Act, Chapter 183, laws of 1918, and amended by Chapter 317, laws of 1920 and Chapter 61, laws of 1922.

Bids will be received at the Court House at Woodbury, N. J., on Thursday, August 10th, 1922, at 10.00 A. M., Eastern Standard Time, and immediately opened and publicly read thereafter.

Drawings, specifications and form of contract and bond for the proposed work are on file in the office of William C. Cattell, County Engineer, at Woodbury, N. J., and in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders. Plans will be furnished on deposit of ten ($10.00) dollars upon application to William C. Cattell, County Engineer. Bids must be made on the standard proposal forms in the manner designated therein and as required by the specifications, enclosed in sealed envelopes, addresses to the Board of Chosen Freeholders of the County of Gloucester and bearing the name and address of the bidder and the name and section of the route on the outside. Bid must be accompanied by a certified check drawn to the order of Charles N. Bell, County Treasurer, for not less than ten per cent (10 per cent) of amount of the bid, provided that said certified check shall not be less than $500.00 nor more than $20,000.00, and be delivered at the above place on or before the hour named. Copies of the standard proposal form will be furnished on application to William C. Cattell, County Engineer.

Each bidder must accompany his bid with a certificate from a surety company duly authorized to do business in this State, stating that such surety company will provide said bidder with a bond in such sum as is required in and in accordance with the provisions of said specifications, conditioned for the faithful performance of the provisions of the contract and specifications. Each bidder must also accompany his bid with a statement of equipment properly filled out.

By order of a resolution of the Board of Chosen Freeholders of the County of Gloucester passed at a meeting held on May 24th, 1922.

CHESTER N. STEELMAN,
Clerk.

Bids: Aug. 4.

Concrete Highway and Appurtenances

Hallstead, Pa.

Sealed proposals will be received by the Council of the Borough of Hallstead, County of Susquehanna, State of Pennsylvania, on August 4th, 1922, until 8 o'clock p.m., at their office at Municipal Building, at which time and place proposals will be opened and read for the construction of concrete highway and appurtenances on Franklin Street, Pine Street, Susquehanna Avenue, and Main Street.

Proposals must be on forms provided and must be accompanied by a certified check for 5 per cent of the total amount bid.

Proposal forms, specifications, maps and other information may be obtained at the office of the Secretary of the Borough of Hallstead, Pa., or at the office of Hoadley & Giles, Civil Engineers, 415 Phelps Bldg., Binghamton, N. Y.

A deposit of ten dollars will be required for each set of plans and specifications, which will be refunded upon return of plans and specifications.

The Borough Council reserves the right to reject any or all bids.

F. C. BROWN,
President, Hallstead Borough Council.
W. J. KIRBY,
Secretary.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Road Work

Wadsworth, Ohio.

Notice is hereby given by direction of the Council of the Village of Wadsworth, Ohio, that sealed proposals will be received by the Council of said village at the office of the Village Clerk until 12 o'clock noon on Aug. 15, 1922, for the improvement of North Lyman Street to Akron-Wadsworth road by construction of bituminous macadam pavement, curbs and storm sewers; also construction of water and sewer mains northerly from North Street.

The following items relating to work and material for said improvement are from engineer's estimate:

7,300 cubic yards excavation; 11,000 square yards paving; 6,000 lineal feet curbing; 8,000 lineal feet drain; 5,000 lineal feet storm sewer.

The plans, profiles, estimates and specifications are on file in the office of the Village Clerk.

Each bid must be accompanied by a certified check for $500.00 conditioned for the proper entering into contract for construction of said improvement.

The council reserves the right to reject any and all bids.

Dated: July 7, 1922.

R. W. SIMESTER,
Village Clerk.

Bids: Aug. 1.

Waterworks Extension No. 1

Ogden City, Utah.

Notice is hereby given that Ogden City proposes to make the following public improvement, to wit: To lay either Cast Iron, or Matheson Joint pipe in Waterworks Extension No. 1, together with all other work incidental thereto, according to plans and specifications now on file in the office of the city engineer. And sealed bids are invited for said work, including the furnishing of all material, and will be received at the office of the city recorder in the City Hall at Ogden, Utah, until ten o'clock a.m., on the 1st day of August, 1922. Instructions to bidders and plans and specifications for said improvement can be seen and examined at the office of the city engineer in the City Hall of said city and may be obtained upon a deposit of $5.00, which will be refunded upon their return in good condition.

The total estimated cost of said improvement is $150,000.00.

The right is reserved to reject any and all bids and to waive all defects.

By order of the Board of Commissioners of Ogden City, Utah, this the 19th day of June, 1922.

C. O. DeWOLF,
City Recorder.

Bids: Aug. 7.

Lighting Facilities

Rome, N. Y.

Sealed proposals for Engines and D. C. Generators (Lighting Facilities) at the State School for Mental Defectives, Rome, N. Y., will be received by Mr. Cyrus J. Severance, President of Board of Managers, State School for Mental Defectives, Rome, N. Y., until 11 o'clock A.M. (Standard Time) on Monday, August 7, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of the proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of the contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 3918. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the State School for Mental Defectives, Rome, N. Y.; at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

Dated: July 5, 1922.

CHAS. BERNSTEIN,
Superintendent.

OFFICIAL PROPOSALS

Bids: Aug. 7.

Watermain Extension

Mitchell, S. D.

Sealed bids will be received at the Office of the City Auditor, Mitchell, South Dakota, up to eight (8:00)o'clock p.m. of Monday, the 7th day of August, 1922, for furnishing material and labor and constructing complete the watermain extensions proposed, in accordance with the plans and specifications on file at the Office of the City Auditor. Separate bids will be entertained as follows:

SECTION NO. 1. For furnishing all material, labor, equipment, etc., and constructing complete the proposed watermain extensions together with all accessories.

SECTION NO. 2. For furnishing the cast iron pipe and special castings listed on proposal blank No. 2. All prices to be f.o.b. Mitchell, South Dakota, freight and any tax included.

SECTION NO. 3. For furnishing all labor and materials, (except cast iron pipe and special castings) tools, equipment, etc. necessary for the construction complete of all watermain extensions and accessories.

"SECTIONS 2" and "3" are optional with "SECTION 1."

All the above material and work must be in accordance with the plans and specification on file at the Office of the City Auditor, Mitchell, South Dakota.

The above material and work is to be paid for in cash.

Any prospective bidder desiring a copy of the specifications may obtain the same from the City Auditor by making a deposit of $5.00, which amount will be refunded on the return of said specifications within five days following the date of receiving bids.

Each bid must be accompanied by a certified check (or draft) in the sum of not less than five per cent (5%) of the total amount of the bids. This check (or draft) must be drawn upon an incorporated Trust Company or Bank and made payable to the City Treasurer, Mitchell, South Dakota, and shall be forfeited and become the property of the City in cae the bidder neglects or refuses to enter into a contract and to furnish bond (of full amount of contract) within ten (10) days after the date when his proposal shall have been accepted by the City. All other checks will be returned upon demand after the contract has been awarded.

The City reserves the right to reject any and all bids.

E. V. BOBB, Mayor.
FRANK McGOVERN,
City Auditor.
FRED J. HENSON,
City Engineer.

Bids: July 25.

Sewers

Wheeling, W. Va.

Sealed proposals will be received by the city of Wheeling, W. Va., until 5 p.m. of the 25th day of July, 1922, for the furnishing of all material including manholes, catch basins and labor required in the construction of new sewers on the following streets:

MARKET STREET (14TH TO CREEK)—1,200 lin.ft. 42-in. reinforced concrete culvert pipe. Average cut 17 ft.

MARKET STREET (ALLEY 9 TO 14TH ST.)—275 lin.ft. 15-in. D. S. vitrified pipe. Average cut 12 ft.

MAIN STREET—1,200 lin.ft. 42-in. reinforced concrete culvert pipe. Average cut 18 ft.

12TH STREET (MAIN ST. TO RIVER)—475 lin.ft. 24-in. vitrified sewer. Average cut 12 ft.

SOUTH MARKET STREET (SOUTH OF 27TH ST.)—225 lin.ft. 36-in. reinforced concrete culvert pipe. Laid in open drain.

Contract is to be let for total amount of work and not by separate streets.

Plans and specifications and proposal forms on file in office of the City Engineer, City Building.

Individual copies of the plans and specifications will be prepared by request, for a nominal fee of $5.00.

All bids must be accompanied by a certified check of 5 per cent of the amount bid, and addressed to the City Council, care of W. M. Evans, City Clerk.

The city reserves the right to reject any or all bids.

C. H. DOWLER,
City Manager.
H. A. CONRAD,
City Engineer.

OFFICIAL PROPOSALS

Bids: Aug. 1.

State Highway Work

Baltimore, Md.

Sealed proposals for building eight sections of State Highway, as follows:

Frederick County, Cont. F-52. One section of State highway along the Buckeystown Pike from end of Cont. F-31 Extd. to Furnace Branch Bridge, a distance of 1.35 miles. (Concrete.)

Howard County, Cont. Ho-23. One section of State highway from the end of Cont. 453 at Benson Branch to the Triadelphia Pike, a distance of 1.5 miles. (Concrete.)

Hartford County, Cont. H-29. One section of State highway from Whiteford toward Dublin, a distance of 1.0 miles. (Concrete.)

Charles County, Cont. Ch-23. One section of State highway from Mason Springs to Marbury, a distance of 2.6 miles. (Gravel.)

Cecil County, Cont. Ce-41. One section of State highway from Calvert toward Fair Hill, for a distance of 2.0 miles. (Concrete.)

Queen Anne's County, Cont. Q-22. One section of State highway from Sudlersville toward Millington, for a distance of 2.0 miles. (Concrete.)

Dorchester County, Cont. D-25. One section of State highway from Eldorado toward Federalsburg, for a distance of 1.0 miles. (Concrete.)

Wicomico County, Cont. Wi-21. One section of State highway from Salisbury toward Snow Hill, for a distance of 2.0 miles. (Concrete.)

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M., standard time, on the 1st day of August, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of five hundred ($500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 13th day of July, 1922.

JOHN N. MACKALL,
Chairman.
L. H. STEUART, Secretary.

Bids: July 25.

Barge Canal Terminals

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until twelve o'clock noon of Tuesday, July 25, 1922, at which place and hour they will be publicly opened and read, for the construction of Barge canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and amendatory laws, and Chapter 402 of the Laws of 1920, as follows:

—1—

TERMINAL CONTRACT NO. 89

For paving a portion of the terminal site, constructing railroad and crane tracks, electrical work and details incidental thereto, at Syracuse.

Contract plans, sheets 1 to 4 inclusive.

—2—

TERMINAL CONTRACT NO. 90

For dredging a portion of the Henry Street slip at Gowanus Bay, Borough of Brooklyn, New York City.

Contract plans, sheet No. 1.

Plans may be seen and detailed specifications, engineer's estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., at the offices of the Superintendent of Public Works, Erie Basin Terminal, Buffalo, N. Y., and Terminal Warehouse, Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate at fifteen cents (15c.) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

CHARLES L. CADLE,
Superintendent of Public Works.
June 22, 1922.

Bids: Aug. 2.

Electric Elevators

Marcy, N. Y.

NOTICE TO CONTRACTORS: Sealed proposals for Three Electric Elevators—Buildings for Chronic Patients, Store House and Cold Storage Building, at the Utica State Hospital, Marcy Division, Marcy, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2 o'clock p.m. (Standard Time) on Wednesday, August 2, 1922, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent (5%) of the amount of proposal. The contractor to whom the award is made will be required to furnish surety company bond in the sum of fifty per cent (50%) of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of Specification No. 3809. The right is reserved to reject any or all bids. Drawings and specifications may be examined at the Utica State Hospital, Utica, N. Y., at the New York Office of the Department of Architecture, Room 1058, 25 Broadway, and at the Depatrment of Architecture, Capitol, Albany, N. Y. Drawings, specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice to and in the discretion of the State Architect, L. F. Pilcher, Capitol, Albany, N. Y.

L. M. FARRINGTON, Secretary,
State Hospital Commission.
Dated: July 13, 1922.

Bids: July 25.

Eight Sections of Road Work

Baltimore, Md.

SEALED PROPOSALS for building eight sections of State Highway, as follows:

ANNE ARUNDEL CO., Contract AA-24—One section of State Highway along the New Cut Road from end of Contract 293 to Pumphrey, a distance of 1.3 miles (concrete).

ALLEGANY CO., Contract A-23—One section of State Highway along the Old National Pike from Cumberland toward Allegany Grove for a distance of 1.2 miles (macadam resurfacing).

ALLEGANY CO., Contract A-24—One section of State Highway from Frostburg to the Swimming Pool, a distance of 9.26 mile (concrete).

HOWARD CO., Contract HO-16—One section of State Highway from Clarksville toward Dayton, a distance of 1.5 miles (concrete).

MONTGOMERY CO., Contract M-33—One section of State Highway from Lelands Corner to Campbells Corner, a distance of 1.5 miles (concrete).

BALTIMORE CITY, Contract BC-40—One section of State Highway along 25th Street, between the York Road and the Harford Road, a distance of 0.75 mile (sheet asphalt).

BALTIMORE CO., Contract B-46—One section of State Highway along the Philadelphia Road from Golden Ring, toward the Harford Co. Line for a distance of 3.7 miles (alternate bids—sheet asphalt and concrete).

QUEEN ANNES CO., Contract Q-24—One section of State Highway from and of Contract Q-16 at Winchester to Kings' Store, a distance of 1.8 miles (concrete).

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 m. on the 25th day of July, 1922, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five hundred ($500.00) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 6th day of July, 1922.

JOHN N. MACKALL,
Chairman.
L. H. STEUART,
Secretary.

Bids: July 24.

Concrete Box Sewer

Annville, Penna.

Sealed bids will be received by the Board of Commissioners of Annville Township, Lebanon County, Penna., until 8:00 o'clock p.m., July 24th, 1922, at which time they will be publicly opened at the Town Hall, for the construction of a reinforced concrete Box Sewer, approximately six hundred and seventy-five feet in length, and three and one-half feet, by three and three-fourths feet, inside dimensions.

Plans and specifications may be obtained from the Township Clerk.

Each proposal must be accompanied by a certified check, in the amount of Two Hundred Dollars ($200.00) made payable to the Township Treasurer.

All bids must be made upon blanks furnished by the undersigned.

The right is reserved to reject any or all bids.

By order of the Board of Commissioners.

D. M. RANK,
President.
JOHN G. NYE,
Township Clerk.

OFFICIAL PROPOSALS

Bids: July 25.

Paving

Blue Island, Ill.

Sealed **proposals** will be received by the Board of Local Improvements of the City of Blue Island, Ill., at the hour of 8:00 o'clock P. M., (Daylight Saving Time), on Tuesday, July 25th, 1922, at the City Hall, in said City, **for furnishing all labor, tools,** machinery and materials and the construction of the following items, in accordance with Ordinance, Plans and Specifications for the same, now on file in the office of the City Clerk of said City, under Special Assessment No. 263.

44,021.20 sq. yds. of reinforced concrete pavement (7½) in. in thickness.
29,757.55 lin. ft. of 5 in. x 6 in. integral concrete curb.
16,100.00 cu. yds. of earth excavation.
(65) manholes and covers adjusted.
(117) catch basins and covers adjusted.
(9) existing valve vaults and covers adjusted.
(12) new brick valve vaults and cast iron covers.
(117) concrete storm water inlets, with 350 lb. cast iron inlet covers and (6) ft. of 9 in. vitrified tile pipe connecting to catch basin.
13,000 lin. ft. of asphaltic fibre matrix expansion joint.
600 lin. ft. of steel protection plates.

Plans, Specifications and Proposed Blanks may be obtained from the City Clerk of said City.

All proposals must be accompanied by a certified check in proper form, in an amount equal to 10 per cent of the total proposal, payable to Paul T. Klenk, President of the Board of Local Improvements; and shall be made on forms furnished by the Engineer.

The person or persons whose proposal shall be accepted will be required to execute a contract and furnish a bond for faithful performance, acceptable to the Board, in an amount equal to (⅓) of the proposal, within (15) days from the date of the award.

The Board of Local Improvements reserves the right to reject any or all proposals.

Board of Local Improvements, Blue Island, Ill.

PAUL T. KLENK, Pres.,
A. G. KERN.
V. B. ROBERTS, Sec'y.

Bids: Aug. 15.

Inlet Construction

Ft. Lauderdale, Fla.

Notice is hereby given that the Board of County Commissioners, Broward County, Florida, will receive bids until 11.00 A.M., on Tuesday, August 15, 1922, for the construction of an inlet from New River Sound to the Atlantic Ocean, near Ft. Lauderdale, as per plans and specifications on file in the Clerk's Office, Courthouse Bldg., Ft. Lauderdale, Fla.

Such work shall be let in two contracts, being as follows:

(a) The dredging of 81,000 cubic yards more or less of earth; and the dredging of 5,000 cubic yards more or less of rock;

(b) The furnishing and placing of 6,200 cubic yards more or less of riprap and jetty hearting and of 2,500 tons more or less of jetty capping, all in riprap and jetty construction.

Separate bids will be received and separate contracts let for each of the two classes of work mentioned. Copy of plans and specifications may be secured from the Clerk upon payment of $1.00 to cover cost of printing the same.

Each bid shall be accompanied by a certified check in the amount of 3% of the bid, guaranteeing that the bidder will make contract and bond within ten days of notice of award.

Bond on each contract will be required in the sum of 50% of the amount bid.

Address all bids to the Board of County Commissioners, in care of Frank A. Bryan, Clerk, Ft. Lauderdale, Fla.

The Board reserves the right to reject any and all bids.

By order of the Board.

H. G. WHEELER,
Chairman.

Attest:—
Frank A. Bryan, Clerk.
Geo. B. Hills Company, Engineers,
Jacksonville, Florida.
Dated July 10, 1922.

OFFICIAL PROPOSALS

Bids: July 31.

Paving

Washington, Pa.

Sealed proposals will be received by the Town Council of the Borough of Washington, Penna., at the Council Chamber until 7:30 p.m., July 31st, 1922, for the construction of about eighteen thousand (18,000 square yards of brick pavement (brick furnished by the borough) and for the resurfacing of about five thousand (5,000) square yards with bituminous pavement.

Each bid must be accompanied by a certified check in the amount of five per cent (5 per cent) of the contract price.

Plans and specifications may be obtained at the office of the Borough Engineer, and the right is reserved to reject any or all bids.

J. F. CURRAN,
President of Council.
JOHN GRIFFITHS,
Secretary of Council.

THIS ADVERTISING COSTS LITTLE

The cost of giving contracts NATIONAL publicity through the Official Proposal Columns of *Engineering News-Record* is only 40 cents a line an insertion. Figured on a circulation basis, the cost per line per thousand readers (1 1/3 cents) is extremely small, compared with the cost of other forms of publicity and the possibility of large waste distribution through publications of limited or general circulations. A single lower bid may save the cost of the advertising many times over.

Bids: July 25.

Highway Work

Raleigh, N. C.

Sealed bids for the construction of the following projects will be received by the North Carolina State Highway Commission at Raleigh, N. C., until 10 A.M., on the 25th day of July, 1922, when they will be opened and read:

Hard surface (Concrete or Asphaltic Paving projects), including grading, reinforced concrete or cast iron pipe, structures, etc.

Project No.	County.	Length (miles)
173	Pasquotank	7.22
183-A	Pitt	13.54
236	Johnston	14.83
342	Cumberland	5.91
484	Wake	8.79
494	Warren	6.21
535	Guilford	7.78
713	Ashe	3.53
764	Surry	1.63

Topsoil, Sand Clay, or Gravel projects, including grading, drainage pipe, structures, etc.

131	Gates	13.50
132	Gates	9.73
569	Moore	18.97
814	Burke	8.69
952	Jackson	
963	Macon	8.68

MACADAM PROJECTS

Penetration or waterbound Macadam Projects, including drainage pipe, structures, etc.

602	Alexander	9.28
640	Iredell	8.17
702-A	Alleghany	7.75
888	Yancey	15.22

BRIDGE PROJECT

694	Union	5.40 ft.

rein.-con. through girders.

Specifications, proposals, forms, etc., may be obtained from the State Highway Commission at Raleigh, N. C.

Plans may be seen in the Raleigh office, or in the offices of the District Engineer.

Bridge plans may be obtained from the State Highway Commission at Raleigh, N. C., upon payment of five ($5.00) dollars per set.

The right is reserved to reject any or all bids.

By order of the North Carolina State Highway Commission.

OFFICIAL PROPOSALS

Bids: July 26.

Concrete Wharf and Transit Shed Foundation

Tampa, Fla.

Sealed bids will be received by the City Commission of the City of Tampa until twelve o'clock noon on the 26th day of July, 1922, for furnishing all materials, labor and equipment necessary to construct a reinforced concrete wharf and transit shed foundation at the municipal slip on the Estuary in the City of Tampa, according to the plans and specifications on file in the office of the City Manager, copies of which may be obtained upon application, for the sum of Ten Dollars ($10.00), payable in advance.

Each bid must be accompanied with a certified check for five percent (5%) of the amount of the bid, payable to the City Clerk of the City of Tampa, to be retained by the City Commission until the contract is awarded and acceptable bonds filed, at which time checks will be returned to the unsuccessful bidders.

The right to reject any or all bids within forty-five (45) days from the date herein specified is reserved by the Commission.

Bidders are requested to examine the location before submitting bids.

Following are the estimated approximate quantities:

(a) Wood sheet pile bulkhead, length 2,288 lineal feet.
(b) Wood piles for retaining wall and pedestal foundation. Number of piles 879.
(c) Lumber for bulkhead caps, wales and flooring. Number of feet B. M. 102,614.
(d) Concrete for bulkhead, retaining wall and foundation pedestals. Number of cubic yards 2,186.
(e) Concrete platform piles. Lineal feet 19,526.
(f) Straight concrete plaform, thirty (30) feet wide, with railroad track. Number of lineal feet 1,476.
(g) Straight concrete platform, thirty (30) feet wide, without railroad tracks. Number of lineal feet 695.
(h) All concrete platform other than straight work. Number of square feet of platform 3,848.
(i) Rock fill. Number of cubic yards 15,000.
(j) Earth fill. Number of cubic yards 40,000.
(k) Sewer outlet 36 in. cast iron pipe. Number of lineal feet 84.

R. D. MARTIN, City Engineer.
A. W. D. HALL, City Manager.
SIGNED: C. H. BROWN,
Mayor-Commissioner.
ATTEST: WM. E. DUNCAN,
City Clerk.

Bids: July 26.

Cast-Iron Main Sewer

Rye, N. Y.

Sealed proposals will be publicly opened by the Trustees of the Village of Rye, N. Y., at the Village Municipal Hall, at 8.15 P.M., July 26, 1922.

Said proposals to cover the construction (both materials and labor) of a cast-iron main sewer according to plans and specifications filed with the Village Clerk.

Copies of the plans and specifications may be obtained from him, or from the engineer, G. Everett Hill, 45 Seventh Avenue, New York City, upon payment of $15, of which amount $10 will be refunded upon return of all papers, in good condition, on or before July 31st, 1922.

Approximately the work consists of:

About 2,000 feet of 16-inch and about 1,540 feet of 18-inch cast-iron pipe (with manholes and fittings) laid partly on piles and partly on concrete piers.

Each bid must be accompanied by a certified check for $5,000, as a guarantee that the bidder, if his bid be accepted, will enter into contract and execute the required bond.

Each bid must be made on blank forms to be obtained from the Village Clerk or the Engineer.

The Village reserves the right to reject any or all bids.

The Board of Village Trustees,
WILLIAM H. SELZER,
Village Clerk.

G. EVERETT HILL, Engineer,
45 Seventh Ave., New York.

OFFICIAL PROPOSALS

Bids: July 31.

Sewage Disposal Plant

Indianapolis, Ind.

Sealed proposals will be received by the Board of Sanitary Commissioners, Sanitary District of Indianapolis, at its office in the City Hall, Indianapolis, Indiana, until 10 a.m. July 31st, 1922, at which time bids will be publicly opened and scheduled, and awards made as soon thereafter as practicable, for construction of Section 2, Division III, and furnishing and erecting mechanical equipment for the Sewage Disposal Plant of the Sanitary District of Indianapolis, in accordance with plans and specifications on file at the office of the Board. This construction and equipment to consist of the following general items:

(1) One (1) Power Plant Building of Brick, Concrete and Steel, approximately 130 ft. x 82 ft. in plan and 65 ft. from bottom of foundation to top of coping wall.
(2) Two (2) Reinforced Concrete Pump Pits including Brick Pump Houses, as specified.
(3) One (1) Radial Brick Chimney, 200 ft. high, 9 ft. internal diameter.
(4) Railway grading, approximately 2,800 ft. in length.
(5) Water, Steam and Air Piping and Erection of Sludge Equipment and other machinery.
(6) One (1) Electric Power Plant Crane.
(7) Five (5) Electric Centrifugal Pumping Units.

Each bidder shall be required to deposit with his bid a certified check in the amount as provided in said specifications and information to bidders, to insure the execution of the contract for which bid is made.

Copies of plans and specifications and general information may be obtained at the office of Charles H. Hurd, Consulting Engineer, 1405 Merchants Bank Building, Indianapolis, Indiana.

The board reserves the right to reject any and all bids.

BOARD OF SANITARY COMMISSIONERS
Jay A. Craven, President,
John L. Elliott, Vice-Pres.
Lucius B. Swift.

Bids: July 26.

State Road Work

Hartford, Conn.

SEALED PROPOSALS will be received by the State Highway Commissioner, 12 Washington Street, Hartford, Conn., until 2 P. M., STANDARD TIME on Wednesday, July 26th, 1922, for the following sections of State work, in accordance with plans and specifications on file in the office of the State Highway Commissioner and at the following places:

TOWN OF COVENTRY: About 20,125 lin. ft. of 3 in. bituminous macadam over 7 in. broken stone base on the Willimantic Road. Plans and specifications at the Town Clerk's office, Coventry, Conn., and at the office of R. W. Stevens, Division Engineer, 12 Washington Street, Hartford, Conn. NOTE: Local stone of a quality satisfactory to the Engineer will be used for both base and surface courses of this road.

TOWN OF ELLINGTON: About 3,000 linear ft. of 3 in. gravel over 8 in. Telford Base on the Sadd's Mill Road. Plans and specifications at the town clerk's office, Ellington, Conn., and at the office of R. W. Stevens, Division Engineer, 12 Washington Street, Hartford, Conn.

TOWN OF NORWICH: About 2,650 linear ft. of plain cement concrete pavement and vitrified hillside brick over 6 in. concrete base on the Fox Hill Road. Plans and specifications at the office of A. W. Bushell, Division Engineer, Thayer Building, Norwich, Conn. NOTE: The cement for the above work both for the concrete pavement and the concrete base will be furnished to the Contractor by the State without expense to the Contractor.

All bids must be accompanied by a surety company bond or a certified check not less than one-third of the cost of the work. The State Highway Commissioner reserves the right to reject any and all bids.

Dated at Hartford, Connecticut, July 11th, 1922.

C. J. BENNETT,
State Highway Commissioner.
12 Washington Street, Hartford, Conn.

OFFICIAL PROPOSALS

Bids: Aug. 15.

Street Improvement

Wadsworth, Ohio.

Notice is hereby given by direction of the Council of the Village of Wadsworth, Ohio, that sealed proposals will be received by the council of said village at the office of the Village Clerk until 12 o'clock noon on August 15, 1922, for the improvement of Highland Avenue, from Prospect Street northerly one block including intersection by construction of vitrified brick pavement on concrete base, curbs and storm sewers.

The following items relating to work and material for said improvement are from engineer's estimate:

1,840 cubic yards excavation; 2,700 square yards paving; 1,700 lineal feet curbing; 1,700 lineal feet drain; 1,000 lineal feet storm sewer.

The plans, profiles, estimates and specifications are on file in the office of the Village Clerk.

Each bid must be accompanied by a certified check for $500.00 conditioned for the proper entering into contract for construction of said improvement.

The council reserves the right to reject any and all bids.

R. W. SIMESTER,
Dated: July 7, 1922. Village Clerk.

Engineering News-Record Reaches Your Local Contractors

Its distribution among the contractors of any one state is in proportion to the number of contractors situated in that state. The Official Proposal Columns of *Engineering News-Record* offer precisely the same efficient service to municipalities, counties, and state and government departments in every section of the United States.

Bids: Aug. 10.

Drainage and Ditch Improvement

Wooster, Ohio.

Notice is hereby given that sealed proposals for the construction of the JOINT WAYNE-HOLMES COUNTY DITCH IMPROVEMENT will be received up until twelve o'clock noon Eastern Standard Time on Thursday, August 10, 1922, at the office of the Secretary of the Joint Board of County Commissioners of Wayne and Holmes Counties at the Court House at Wooster, Ohio.

The work to be done consists of the draining and dredging of Killbuck Creek in Wayne and Holmes Counties, in all, the distance of One Hundred and Fifty-Six Thousand (156,000) feet.

The yardage of earth to be moved is estimated at about 1,780,000 cubic yards, consisting principally of Hydraulic dredge work. The date of completion will be eighteen months from the date of awarding of contract.

A certified check in the amount of $10,000.00, payable to the Joint Board of County Commissioners of Wayne and Holmes Counties, Ohio, must accompany each proposal. Checks of unsuccessful bidders will be returned within ten days of the awarding of the contract.

The said board reserves the right to reject any or all bids. Plans, specifications and proposals are on file at the Secretary's office at the Court House, Wooster, Ohio, or same will be mailed upon application when same is accompanied by a deposit of $20, which will be refunded if plans are returned in good condition.

By order of the Joint Board of County Commissioners of Wayne and Holmes Counties.
CHAS. F. SCHOPF,
Secretary.

OFFICIAL PROPOSALS

Bids: Aug. 9.

Road Work

Hackensack, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders for the construction of Section 3, Route No. 10, from the Borough of Little Ferry to the Borough of Ridgefield, in the County of Bergen, with an 8-in. one course reinforced concrete pavement; estimated amount of surface pavement required is 17,680 sq. yds.; and opened and read in public at Court House, Hackensack, N. J. on Wednesday, August 9th, 1922, at 1.30 P. M. (daylight savings time).

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by the County Engineer, and approved by the State Highway Commission, have been filed in the office of the said Engineer at the Court House, Hackensack, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to the Board of Chosen Freeholders of the County of Bergen and must be accompanied by a certificate from the Bonding Company and a certified check for not less than 10 per cent of the bid and be delivered at the place and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

Work to be performed under County Reimbursement Act Chapter 183 Laws of 1918, and amended by Chapter 317, Laws of 1920.

By Order of Board of Chosen Freeholders, Bergen County, N. J.

JAS. M. HARKNESS,
Clerk.

Bids: Aug. 2.

High School Building

Perry, N. Y.

Sealed bids will be received by the Board of Education, District No. 6, towns of Perry and Castile, Perry, N. Y., at the office of the Secretary T. H. Donnelly, High School building on Leicester Street on or before 12 o'clock noon Eastern Standard Time, August 2nd, 1922, for making the proposed alterations in the old building and the construction of a two story brick addition 146x150 feet, according to plans and specifications prepared by Gordon and Kaelber, Architects, 125 Sibley Building, Rochester, N. Y.

The plans and specifications may be inspected at the office of said architects or said secretary of the Board of Education, and obtained together with bidding sheets at the office of said architects.

Each bid shall be accompanied by a certified check amounting to 5 per cent of the amount of the bid. If the bid is accepted a contract will be entered into within thirty days. The performance of said contract shall be properly secured by United States Government bonds or surety bonds duly approved by the Board of Education.

The Board of Education may at its discretion reject all bids as the interests of the district may appear.

Bids will be received on the following types of work:

No. 1—Mason, Steel and Iron, Tile and Marble Work.
No. 2—Carpenter Work and Hardware.
No. 3—Painting and Finishing.
No. 4—Roofing and Metal Work.
No. 5—Electrical Work.
No. 6—Sprinkler System.
No. 7—Heating and Ventilating.
No. 8—Plumbing.

If any contractor prefers to submit a general bid on the first six types of work listed above the Board will receive and consider it.

By order of the Board of Education,
C. W. TORREY,
G. L. PECK,
W. D. OLMSTED,
MRS. ANNA SMITH,
MRS. THEO. CALKINS,
DR. C. R. BROWN,
W. W. McMAHAN.

July 10, 1922.

OFFICIAL PROPOSALS

Bids: Aug. 17.

Street Improvement

Henderson, N. C.

Sealed proposals will be received for the materials and labor in connection with the improvements of certain streets of the City of Henderson, N. C., by the Mayor and Board of Commissioners of said city until three o'clock **P.M., of August seventeenth,** when they will be opened and publicly read.

The specifications cover sheet asphalt and bituminous concrete pavements, and in addition to the above, proposals will be considered upon Warrenite-Bitulithic and other special forms of pavement. Work contemplated includes grading, furnishing placing and constructing concrete curb and gutters and the installation of storm drains.

Bids are asked upon approximately 60,000 square yards of pavement. Pavement will be constructed from one or more of the above classes as may be selected by the city, and the entire work to be done will be awarded under one or more contracts as the city may elect.

Plans and specifications may be examined at the office of the City Clerk or at the office of the Engineer. Specifications will be ready for delivery on or about July 20, and prospective bidders may obtain same by addressing direct to the Engineer at Henderson, N. C., and making a deposit of $10.00, which deposit will be refunded upon the return of the specifications in good condition.

Each proposal must be accompanied by a certified check in the sum of five (5) per cent of the amount bid as evidence of good faith upon the part of the bidder.

The City reserves the right to reject any or all bids or accept any which may seem to be to the best interest of the City of Henderson.

A. A. BUNN, Mayor.
S. B. BURWELL, Clerk.
R. D. GLADDING, Engineer.

Bids: July 21.

Highway Work

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at one o'clock p.m., advanced standard time which is twelve o'clock noon eastern standard time, on Friday, the 21st day of July, 1922, for the improvement of the following in Cattaraugus County.

Highway No. 8018-A. Bradford-Carrollton, Part 2 (Carrollton Bridge). The work to be done under this contract includes seven spans of steel trusses weighing approximately 1,150,000 lbs. with six concrete piers and two abutments. The approximate length of steel structure is 895 feet and the roadway is 20 feet in width, surfaced with wood block on a reinforced concrete floor. Also for the improvement of the following highways:

Allegany......(two highways: 2.77 & 8.35)
Fulton................(one highway: 4.23)
Oneida................(one highway: 2.75)
St. Lawrence..........(one highway: 7.73)
Steuben...............(one highway: 1.01)
Wayne.................(one highway: 1.65)

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the division engineers in whose division the roads are to be improved. The addresses of the division engineers and the counties in which they are in charge will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications and contract agreement.

J. C. FINCH, Secretary. HERBERT S. SISSON, Commissioner.

Bids: Aug. 18.

Channel Work

Bloomington, Ill.

Sealed bids will be received by the Trustees of the Bloomington and Normal Sanitary District, at 404 Unity Building, Bloomington, Illinois, up to 2 o'clock p. m., August 18, 1922, for construction of the open channel work of the District as follows:

71,300 cubic yards excavation in open channel.
76,200 square yards hand dressed spoil bank.
150 lineal feet retaining wall requiring 56 cu. yd. concrete.
75 lineal feet reinforced concrete sewer crossing under channel.
1 manhole on 33-inch sewer.
1 manhole on 48-inch sewer to be repaired.
Supports for two sewers crossing proposed channel.

Open channel has bottom widths from 8 feet to 26 feet, with side slopes 1½ to 1, average depth 7 feet.

Separate bids will be received on the dredging and spoil bank work and on the incidental work above listed.

All bids must be on forms prescribed by the Trustees and bidding blanks may be obtained from Taylor & Woltmann, 428 Unity Bldg., Bloomington, Illinois, Engineers for the District.

Plans, profiles and specifications for the work may be obtained from the Engineers.

All bids must be accompanied by a check for 10 per cent of the amount of the bid, certified by a responsible bank, payable to John W. Harber, President of Board of Trustees.

The Trustees reserve the right to reject any and all bids.

Dated Bloomington, Illinois, July 8, 1922.

JOHN W. HARBER,
FRED D. BARBER,
JOHN J. CONDON,
Trustees, Bloomington and Normal Sanitary District.

Bids: July 31.

Tenders for Incinerator

Chatham, Canada.

Sealed Bids will be received by the undersigned up to 4 p.m., Monday, July 31st, for the construction of a mixed garbage and refuse incinerator for the City of Chatham, Ontario.

Each bid must be accompanied by a satisfactory bidder's bond for 5% of the bid price.

A deposit of Five dollars is required to obtain plans and specifications. Further information will be supplied at the office of the City Engineer and Manager, Chatham, Ont.

The City reserves the right to reject any or all bids.

C. H. R. FULLER,
City Engineer and Manager.

Bids: Aug. 6.

Mill Type Crane

Aberdeen, Wash.

Sealed proposals will be received by the Port of Grays Harbor at the office of the Commission, 206 E. Wishkah St., Aberdeen, Wash., until 10 o'clock A.M., August 6, 1922, for one 5 Ton, or 7½ Ton, 78-foot span, Mill Type Traveling Crane.

Further information on application.

PORT OF GRAYS HARBOR.
FRANK H. LAMB, President.
J. A. VANCE, Secretary.

Bids: Aug. 10.

Spring Street Viaduct

Atlanta, Ga.

Sealed proposals to be addressed to and filed with J. N. Landers, Purchasing Agent, City of Atlanta, will be received up to two p. m. Thursday, August 10, 1922, for the construction of the Spring Street Viaduct. The work will be let under two contracts to one or two bidders. Contract No. 1 will be for the manufacture and delivery of superstructure metal work; contract No. 2, for the erection of the superstructure metal work and for the construction complete of the viaduct, approaches and incidental work. The viaduct and approaches include about 1,700 lin. ft. of elevated viaduct structures in part of structural steel and in part of reinforced concrete, and about 600 lin. ft. of approaches between the retaining walls, together with regrading and repavement of certain roadways, and alterations to certain incidental structures, and attendant construction. About 1,200 tons structural steel, 10,000 cu. yds. reinforced concrete.

Each bid shall be accompanied by certified check payable to J. N. Landers, Purchasing Agent, in an amount not less than 2 per cent of the gross amount of the bid, to be forfeited as liquidated damages by any bidder who is awarded a contract and who fails promptly to execute contract and bond. Certified checks will be returned to bidders, upon execution of contract and bond or sooner upon action of the Viaduct Committee.

Contracts will be awarded to the lowest responsible and competent bidders, but the City reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of J. N. Landers, Purchasing Agent, and in the offices of Harrington, Howard & Ash, Kansas City, and of Robert & Co., Inc., Atlanta, Associated Consulting Engineers. Copies of the plans and specifications may be secured from either of these engineers' offices by depositing $35.00. These plans and specifications shall be returned and $20.00 will be refunded.

A bond satisfactory to the City of Atlanta equal to the total gross amount of the bid will be required.

J. N. LANDERS,
Purchasing Agent, City of Atlanta.
(2nd floor City Hall.)

Bids: July 24.

Sanitary Sewer Outlet

South Chicago Heights, Ill.

SEALED PROPOSALS will be received by the Board of Trustees of the Village of South Chicago Heights, Illinois, on Monday July 24th A. D. 1922, at the hour of 8:00 o'clock P. M. (Daylight Saving Time), at the Village Hall in said Village, for the construction and completion of a Main Sanitary Sewer Outlet, including the furnishing all labor and materials and the necessary machinery, tools and equipment to properly construct the same, in accordance with plans, profiles and specifications on file in the office of the Village Clerk, Mrs. Elizabeth C. Hansen.

The following estimated quantities comprise the work contemplated to be done:

1645.15 lin. ft. of 18 inch, inside diameter, double strength, Vitrified Tile Sewer average cut 13 ft., maximum cut 23 ft.

205.3 lin. ft. of 18 inch inside diameter (Class A.) Cast-Iron Pipe Sewer, average cut 15 ft., (or alternate tunnel trench).

11 Brick Manholes, with 450 lb. cast-iron covers; and wrought Iron Steps.

150 cu. yds. excavation in open ditch outlet.

Copies of the plans, specifications and bidding blanks can be obtained at the office of Mr. Howard P. Roe, Unity Bldg., Chicago Heights, Ill., and at the office of Allen L. Fox, Engineer, Commercial Bank Bldg., Chicago Heights, Ill.

Each bid must be accompanied by cash or certified check in an amount equal to (10 per cent) of the total proposal, payable to Emil Barnick, President of said Village.

The successful bidder will be required to furnish a Bond acceptable to said Village in the amount of one-half of the total proposal, within (10) days from the award of the contract.

The Village reserves the right to reject any or all proposals.

EMIL BARNICK,
President.
MRS. ELIZABETH C. HANSEN,
Clerk.

A CONTRAST—NOT A COMPARISON

¶All things are comparable. ¶Your necktie is better than mine or mine better than yours; your automobile is better than mine or mine better than yours by comparison. ¶Suppose then for a moment you compare Swart Contract Bond Service with the ordinary sort. ¶With the ordinary sort your Contract Bond application is filled in and goes to the underwriters and the balance is largely "hope" that nothing will happen to keep it from going through. ¶With Swart Service, after your application is made out your case is as thoroughly prepared as a lawyer would prepare a case to put before a judge. ¶Then Swart personally presents that case to the underwriters in exactly the same way the lawyer presents his case to the judge. ¶Nothing is left undone, no stone left unturned. ¶Result—a contrast to the ordinary service rather than a comparison—and your credit is built in the bank of underwriting. ¶It will cost you nothing to know more of this service and may cost you a lot to not know about it.

HARMON V. SWART
Contract Bonds *Compensation Insurance*
92 William Street, New York

OFFICIAL PROPOSALS

Bids: Aug. 1.

Extension of Sea Walls

Longport, N. J.

Sealed proposals for the construction or extension of stone jetties or sea walls or any or all of them on the Atlantic Ocean, in the Borough of Longport, County of Atlantic, State of New Jersey, will be received by the Board of Commissioners of the Borough of Longport at 7:30 o'clock in the evening, Eastern Standard Time, August 1, 1922, during a regular meeting of said Board of Commissioners, at the Commission Chamber, Borough Hall, Longport, N. J., said bids to be opened and read in public at the aforesaid time and place.

Plans, specifications and form of bid, certificate of surety, contract and bond, covering proposed work, are on file in the office of the Borough Clerk, at Borough Hall, Longport, N. J., where they may be inspected during business hours. Each bid must be made on the standard proposal form in the manner required by the specifications, must be enclosed in a sealed envelope marked "Proposals for Construction of Stone Jetties or Stone Seawalls or any or all of them at Longport, N. J., to be opened at 7:30 P.M., Eastern Standard Time, August 1, 1922," and with the certificate of surety properly filled in, and shall be enclosed in another envelope addressed to William S. Gilmore, Borough Clerk, Borough Hall, Longport, N. J. These envelopes must not be marked in any other manner. Each bid must be accompanied by a certified check payable to the Director of Revenue and Finance, or cash, in the amount of $10,000.00, and no bid will be received after the hour fixed for receipt of bids.

A contract will be awarded, if awarded at all, within one month of the date of receiving bids and such award will be made subject to the sale and delivery of bonds to be issued for the purpose of financing the above work.

The right is reserve to reject any or all bids.

By order of the Board of Commissioners of the Borough of Longport, N. J.

WILLIAM S. GILMORE,
Borough Clerk.

Bids: Aug. 1.

Street Improvements

Saranac Lake, N. Y.

Sealed bids for the improvement of streets, namely: Park Ave., Shepard Ave., South St., and Helen St., will be received by the Village Clerk of the Village of Saranac Lake, N.Y., until 7:30 P.M. (Daylight Saving Time), Tuesday, August 1st, 1922.

Plans, details, profiles, specifications, approximate quantities, and instructions to bidders will be on file at the Village Engineer's Office after July 18th and copies may be procured from Engineer on deposit of $10.00.

The Village Board of Trustees reserves the right to reject any or all bids.

(Signed)
DAN S. FOSTER,
Village President.
SEAVER A. MILLER,
Village Clerk.
HARRY HULL, Engineer.

Bids: Aug. 7.

Street Improvement

White Plains, N. Y.

Sealed bids or proposals for the construction of North Broadway, City of White Plains, with cement concrete and asphaltic concrete surface on a cement concrete foundation will be received at the office of the Clerk of the Board of Supervisors, Court House, White Plains, N. Y., until 10 a.m. (Standard Time), August 7th, 1922.

Specifications, proposal sheets and all information relative to same may be procured at the office of the County Superintendent of Highways, Court House, White Plains, N. Y., upon making a deposit of four dollars ($4.00).

BOARD OF SUPERVISORS.
FRED L. MERRITT, Clerk.

U. S. GOVERNMENT

COMMISSIONERS, D. C., WASHINGTON, July 14, 1922. Sealed proposals will be received at Room 509 District Building until 2 o'clock P. M., July 31, 1922, for grading, improving, and paving streets, roads, and avenues. For detailed information, apply Room 427 District Building. Cuno H. Rudolph, James F. Oyster, Charles Keller, Commissioners, D. C.

OFFICIAL PROPOSALS

Bids: Aug. 1.

Sanitary Sewer and Septic Tanks

Lake Worth, Fla.

Sealed proposals for the following contracts will be received by the Town Commissioners of Lake Worth, Florida, at the office of the Town Clerk until 10 o'clock a.m., August 1, 1922, for furnishing all materials, equipment and labor for the construction of a sanitary sewer system and septic tank, complete as per plans and specifications adopted by them.

The contracts will be divided as follows:

DISTRICT No. 1. Approximately 22,613 feet of 8-in. vitrified tile sewer, 1,620 feet of 10-in. vitrified tile sewer, 1,656 feet of 15-in. vitrified tile sewer, 370 feet of 14-in. cast-iron outfall and a reinforced concrete septic tank, all of the above to be complete with manholes and appurtenances.

DISTRICT No. 2. Approximately 19,297 feet of 8-in. vitrified tile sewer, 3,482 feet of 12-in. vitrified tile sewer, 250 feet of 14-in. cast-iron outfall and a reinforced concrete septic tank, all of the above to be complete with manholes and appurtenances.

Bids must be made out on blanks furnished by the City Engineer and must be accompanied by a certified check for $1,000 for each contract.

Plans, specifications and other necessary data may be obtained from the Town Clerk upon deposit of $10.00, of which the sum of $5.00 will be refunded upon return of the plans and specifications in good condition.

The bidder to whom the contracts are awarded must furnish surety bond in the sum of 25 per cent of the amount of the bid.

The Commissioners reserve the right to reject any and all bids.

J. L. BOSLEY,
City Clerk.
WARD RANDOLPH,
City Engineer.

U. S. GOVERNMENT

U. S. ENGINEER OFFICE, Buffalo, N. Y. Sealed proposals will be received here until 11 a.m. (Eastern standard time), July 27, 1922, and then opened, for constructing rubble mound east breakwater extension at Fairport Harbor, O. Further infomation on application.

UNITED STATES ENGINEER OFFICE, Duluth, Minn., July 14, 1922. Sealed proposals will be received here until 10 o'clock a.m., August 14, 1922, and then opened, for constructing and delivering a steel derrick scow, complete with machinery and equipment. Further information on application.

U. S. ENGR. OFFICE, WILMINGTON, Del. Sealed proposals will be received here until 11 a.m., standard time, Aug. 15, 1922, and then opened, for excavating Inland Waterway from Delaware River to Chesapeake Bay, Del. and Md. (Chesapeake and Delaware Canal). Further information on application.

U. S. ENGINEER OFFICE, Providence, R. I. Sealed proposals will be received here until 11 o'clock a.m., Eastern Standard Time, August 15, 1922, and then opened, for rock removal in Stamford Harbor, Conn. Further information on application.

U. S. ENGINEER OFFICE, Galveston, Tex. Sealed proposals will be received here until 12 M., Aug. 15th, 1922, and then opened, for dredging the Houston Ship Channel, Texas. Further information on application.

PROPOSALS FOR PONTOON CATAMARANS.—U. S. Engineer Office, 2d District, Portland, Ore.—Sealed proposals for 80 all steel pontoon catamarans will be received here unti 11 a.m., August 21, 1922, and then opened. Further information on application.

U. S. VETERANS' BUREAU, Office of the Director, Washington, D. C., July 15, 1922. Sealed proposals will be received at this office until 3 o'clock p.m., on September 1, 1922, and then opened, for the purchase of 2 complete York 100-ton refrigerating plants in U. S. Veterans' Hospital No. 42, Perryville, Md. The sealed envelope must be plainly marked "Proposal for purchase of refrigerating machinery to be opened at 3 p.m., September 1, 1922," and addressed to U. S. Veterans' Bureau, Room 1027, Arlington Building, Washington, D. C. A description of the equipment to be sold, conditions, etc., can be had on application to the Medical Officer in Charge, U. S. Veterans' Hospital No. 42, Perryville, Md. L. B. Rogers, Acting Director.

U. S. GOVERNMENT

PROPOSALS FOR STEEL HULL.—U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 A. M., July 31, 1922, and then opened, for furnishing one steel hull for dipper dredge Upatoi. Further information on application.

PROPOSALS FOR STONE.—U. S. ENGINEER OFFICE, 329 Custom House, New Orleans, La.—SEALED PROPOSALS will be received here until 11 a.m., August 15, 1922, and then opened, for furnishing and delivering stone for Southwest Pass, Head of Passes and South Pass, Mississippi River. Further information on application.

U. S. ENGINEER OFFICE, 616 Army Building, New York City.—SEALED PROPOSALS will be received here until 11 a.m., Eastern Standard Time, August 19, 1922, and then opened, for dredging in Passaic River, N. J. Further information on application.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., July 5, 1922.—SEALED PROPOSALS will be opened in this office at 3 p.m., July 31, 1922, for the construction (exclusive of mechanical equipment) of an Additional Wing to the Main Hospital Building, of the United States Public Health Service Hospital at Tanner's Creek, Norfolk, Va., in accordance with drawings and specifications, which may be obtained from Neal A. Melick, Superintendent of Construction, at the Site of the Hospital, Norfolk, Va., or at this office, in the discretion of the Supervising Architect. Proposals will be considered only from individuals, firms, or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract, and who have established a record for expedition on contracts of similar character and magnitude. The fact that any concern obtains a set of the plans and specifications from any source whatever and submits a bid, shall not constitute a waiver of the foregoing stipulations. Jas. A. Wetmore, Acting Supervising Architect.

U. S. ENGINEER OFFICE, 815 Witherspoon Bldg., Philadelphia, Pa. Bids are wanted until Aug. 7, 1922, for dredging in Delaware River in front of Camden, N. J. Further information on application.

PROPOSALS FOR WIRE MESH AND MACHINE BOLTS. — Office, Mississippi River Commission, 1st and 2nd Districts, Custom House, Memphis, Tenn.—Sealed proposals for furnishing and delivering wire mesh and machine bolts will be received at this office until 11 a.m., July 25, 1922, and then opened. Further information on application.

SEALED PROPOSALS, INDORSED "PROPOSALS FOR DISTILLING PLANT, KEY WEST, FLA., Specification No. 4546," will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 o'clock a.m., August 2, 1922, and then and there publicly opened, for an addition to power house, including foundations for all equipment; for laying approximately 800 lineal feet of 20-inch, cast iron, bell and spigot circulating water pipe; for the installation of six evaporators, two condensers, two distilled water and two dense sea water pumps, one drip trap, and certain fittings and valves to be furnished by the Government, and for furnishing and installing a traveling crane, two turbine-driven, centrifugal circulating pumps, a combined twin pump and receiver, three drip traps, oil separator, sluice gates, and strainers including operating mechanism in connection with the circulating water mains, all necessary accessories and complete piping systems for distilling plant equipment at the Naval Operating Base, (Naval Station) Key West, Fla. The distilling house will have concrete foundations, supported on concrete piles, concrete ground floor and equipment foundations, brick walls, asbestos shingle roof, steel roof trusses and steel sash, doors, platforms and stair. Drawings and Specification No. 4546 may be obtained on application to the Bureau or to the Commandant, Naval Operating Base, Key West, Fla. Deposit of a check or postal money order for $10, payable to the Chief of the Bureau of Yards and Docks, is required as security for the safe return of the drawings and specification. L. E. GREGORY,
Chief of Bureau.

June 6, 1922.